

GENERAL CATALOGUE



1968-1969

The College of
William and Mary

IN VIRGINIA



THE COVER: Embossed on the cover is The Coat of Arms granted to the College by the College of Heralds, May 14, 1694.

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Bulletin of
The College of William and Mary
in Virginia

VOLUME 63

APRIL 1969

NUMBER 7

TWO HUNDRED AND SEVENTY-SIXTH YEAR

1968-1969

Announcements, Session 1969-1970

WILLIAMSBURG, VIRGINIA

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EVENING COLLEGE, EXTENSION DIVISION, AND SUMMER SESSION

Donald J. Herrmann, *Dean of the School of Continuing Studies*



The Sir Christopher Wren Building

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COLLEGE CALENDAR

1969-70

1969

FIRST SEMESTER

<i>September 7-10</i>	Orientation Period (Sunday-Wednesday)
<i>September 11</i>	Freshman Registration (Thursday)
<i>September 12-13</i>	Registration of all Other Students including Graduate Students (Friday-Saturday)
<i>September 15</i>	Beginning of Classes: 8 a.m. (Monday)
<i>September 19</i>	Opening Convocation: 11 a.m. (Friday)
<i>September 22</i>	Last Day for Course or Section Changes: 5 p.m. (Monday)
<i>October 18</i>	Homecoming (Saturday)
<i>November 5</i>	Mid-Semester Reports (100-200 Courses) filed with Registrar: 9 a.m. (Wednesday)
<i>November 26</i>	Beginning of Thanksgiving Holiday: 1 p.m. (Wednesday)
<i>December 1</i>	End of Thanksgiving Holiday: 8 a.m. (Monday)
<i>December 19</i>	Beginning of Christmas Recess: 5 p.m. (Friday)

1970

<i>January 5</i>	End of Christmas Recess: 8 a. m. (Monday)
<i>January 10</i>	End of Classes: 5 pm. (Saturday)
<i>January 12-23</i>	Semester Examinations (Monday-Friday)

SECOND SEMESTER

<i>January 30-31</i>	Registration of all Students (Friday-Saturday)
<i>February 2</i>	Beginning of Classes: 8 a.m. (Monday)
<i>February 7</i>	Charter Day: 11 a.m. (Saturday)
<i>February 9</i>	Last Day for Course or Section Changes: 5 p.m. (Monday)
<i>March 21</i>	Mid-Semester Reports (100-200 Courses) filed with Registrar (Saturday)
<i>March 21</i>	Beginning of Spring Recess: 1 p. m. (Saturday)
<i>March 31</i>	End of Spring Recess: 8 a.m. (Tuesday)
<i>April 17</i>	Spring Convocation: 11 a.m. (Friday)
<i>April 25</i>	Parents' Day (Saturday)
<i>May 15</i>	End of Classes: 5 p.m. (Friday)

May 18-28
May 31

Semester Examinations (Monday-Thursday)
Commencement Day (Sunday)

SUMMER SESSION—1970

June 15 Beginning of Summer Session-First Term (Monday)
July 17 End of First Term (Friday)
July 20 Beginning of Second Term (Monday)
August 21 End of Second Term (Friday)
August 22 Summer Session Commencement (Saturday)

1969

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The Presidents of The College of William and Mary in Virginia

James Blair, 1693-1743

Thomas Roderick Dew, 1836-
1846

William Dawson, 1743-1752

Robert Saunders, 1847-1848

William Stith, 1752-1755

Benjamin S. Ewell, 1848-1849

Thomas Dawson, 1755-1760

John Johns, 1849-1854

William Yates, 1761-1764

Benjamin S. Ewell, 1854-1888

James Horrocks, 1764-1771

Lyon G. Tyler, 1888-1919

John Camm, 1771-1777

Julian A. C. Chandler, 1919-1934

James Madison, 1777-1812

John Stewart Bryan, 1934-1942

John Bracken, 1812-1814

John Edwin Pomfret, 1942-1951

John Augustine Smith, 1814-
1826

Alvin Duke Chandler, 1951-1960

William H. Wilmer, 1826-1827

Davis Young Paschall, 1960-

Adam Empie, 1827-1836

The Chancellors of The College of William and Mary in Virginia

Henry Compton, Bishop of London, 1693-1700

Thomas Tenison, Archbishop of Canterbury, 1700-1707

Henry Compton, Bishop of London, 1707-1713

John Robinson, Bishop of London, 1714-1721

William Wake, Archbishop of Canterbury, 1721-1729

Edmund Gibson, Bishop of London, 1729-1736

William Wake, Archbishop of Canterbury, 1736-1737

Edmund Gibson, Bishop of London, 1737-1748

Thomas Sherlock, Bishop of London, 1749-1761

Thomas Hayter, Bishop of London, 1762

Charles Wyndham, Earl of Egremont, 1762-1763

Philip Yorke, Earl of Hardwicke, 1764

Richard Terrick, Bishop of London, 1764-1776

*George Washington, First President of the United States,
1788-1799*

John Tyler, Tenth President of the United States, 1859-1862

Hugh Blair Grigsby, Historian, 1871-1881

*John Stewart Bryan, Twentieth President of the
College of William and Mary, 1942-1944*

Colgate W. Darden, Jr., Governor of Virginia, 1946-1947

*Alvin Duke Chandler, Twenty-second President of the
College of William and Mary, 1962-*



HISTORY OF THE COLLEGE

A FEW YEARS after the founding of Jamestown, a movement was started in England and in Virginia to establish a college, and its construction actually was begun at the city of Henrico on the James River, ten miles below the present city of Richmond. The Indian massacre of 1622 disrupted these plans, but the idea persisted. In 1661, the General Assembly of Virginia provided for the establishment of a "Colledge," but the plan was not carried out; it was not until 1693 that the College of William and Mary in Virginia was chartered by the joint sovereigns whose names it bears. The Bishop of London was named its first chancellor, and Reverend James Blair became the first president, occupying this office until his death fifty years later. In 1695, while Jamestown was still the capital of Virginia, construction of the new college was begun at Middle Plantation, located midway between the James and York rivers. The Wren Building, the oldest academic building in continuous use in the United States, was constructed from plans supplied by Sir Christopher Wren, and for many years it provided living quarters and classroom facilities for the entire college. From 1700 to 1705, it was the meeting place for the General Assembly of Virginia. In 1699, Middle Plantation became Williamsburg and the capital of Virginia.

Holding a royal charter, with arms granted by the College of Heralds, the College of William and Mary enjoyed the benefit of royal favor and of the deep interest of the General Assembly of Virginia, which granted it the income from certain import and export duties. Until the American Revolution, it was, perhaps, the wealthiest college in America. While the charter provided for a president and six masters, or professors, it was not until 1729 that all these professorships were established. The chairs were: Divinity, Philosophy, Oriental Languages, Mathematics, Grammar School, and the Indian School. The Indian School, endowed from a large estate which Robert Boyle, the eminent English physicist and formulator of "Boyle's Law," left for "pious and religious uses," was housed in the Brafferton, built in 1723, and named for a manor in Yorkshire, from which most of its revenue was derived. The Indian School languished, however, and failed to survive the Revolution. In 1705, the Wren Building was destroyed by fire. It was rebuilt on the original foundation and completed about 1716. In 1732, the chapel wing of the Wren Building

was opened, and the foundation of the President's House was laid. In 1776, Phi Beta Kappa, the first Greek-letter fraternity in an American college, was founded by a group of students in the College. In 1779, the first Honor System was instituted, and in the same year came the sharpest break with academic tradition. Under the influence of Thomas Jefferson, then Governor of Virginia, the curriculum was severely revised: a school of law was established, the first school of law in America and the second in the English-speaking world; the old departments were replaced by professorships of Anatomy and Medicine, Natural Philosophy and Mathematics, Moral Philosophy and Fine Arts, and Modern Languages.

When the Colonies resisted the policies of the British Crown, William and Mary, although wealthy and under royal patronage, chose to risk the loss of material substance for principle. Taking an active part in the events accompanying the Revolution and the founding of the Republic, the College supplied such leaders as Thomas Jefferson, James Monroe, Peyton Randolph, Richard Bland, John Marshall, and Benjamin Harrison to the cause of Independence. Although George Washington never attended William and Mary, he received his surveyor's commission from the College, and served as its chancellor from 1789 until his death.

In 1781, during the memorable Yorktown campaign, academic life was interrupted temporarily, the buildings being occupied, in turn, by the Army of Cornwallis and our French allies. The President's House, built in 1732, and occupied by every President of the College, was accidentally burned, in part, by the French troops. It was later restored by Louis XVI.

Following the war, William and Mary was seriously impoverished by the loss of its invested funds and of the income from duties granted by the General Assembly of Virginia. Under the able administration of Bishop James Madison, cousin to President James Madison, the College recovered rapidly, and during the presidency of Thomas Roderick Dew (1836-46) reached its peak enrollment until comparatively recent times. In 1854, Benjamin Stoddert Ewell became President. On the 166th anniversary of the founding, the interior of the Wren Building was burned a second time; some early documents, including the original charter, all of the library, and the chemical laboratory were destroyed.

With the advent of war in 1861, the College closed, and the Presi-

dent, faculty, and student body entered the Confederate service. Again the academic halls echoed to the tramp of soldiers, the buildings being occupied successively by both the Confederate and Union armies. In 1862, the Wren Building was burned a third time when Union troops, acting without orders, set fire to the structure. With the return of peace in 1865, the College was reopened by President Ewell. With resources gone, students and faculty scattered, the main building with the library burned, William and Mary was an example of the devastation of war. Heroically, Colonel Ewell fought an apparently losing fight, and although somewhat rehabilitated, the College was forced, in 1881, to suspend operations for lack of funds. The charter was kept alive by President Ewell, who rang the College bell to mark the opening of every term, though only a handful of students remained for gratuitous instruction.

In 1888, with a State grant of \$10,000 the College revived under the presidency of Lyon G. Tyler, son of John Tyler, former President of the United States. In 1906, it became a State institution, and its control was placed under a Board of Visitors appointed by the Governor of Virginia. It became coeducational in 1918. During the administration of Julian Alvin Carroll Chandler (1919-1934), an alumnus, the facilities were increased tenfold, the student body growing from 130 to 1,300, with a faculty of nearly one hundred. The College also expanded to include a Division in Richmond (1925), now the Virginia Commonwealth University, and a Norfolk Division (1930), now Old Dominion College.

Between 1928 and 1932 the three earliest buildings, the Wren Building, the Brafferton, and the President's House, were restored to their original appearance through the generosity of John D. Rockefeller, Jr.

President Chandler was succeeded, in 1934, by John Stewart Bryan as the twentieth President, who continued the expansion of the facilities of the College. Shortly after the United States entered the Second World War, Mr. Bryan retired, to become the fourth American chancellor. He was followed by President John Edwin Pomfret, who guided William and Mary through the grim days of the war-years. For a period the ancient walls resounded to the marching feet of an Army Specialized Training Program unit. A school for the training of Naval Chaplains was established on the campus and continued to the end of the war. The College experienced the general abnormal expansion following 1946, when the returning veterans increased the

enrollment for a time, to slightly over the 2,000 mark. In 1943, the Institute of Early American History and Culture was formed by the union of the historical resources of the College and Colonial Williamsburg, Inc. This organization of scholars is devoted to study and research in Colonial American history; its purpose is "to promote sound interpretation of the American heritage on all levels."

President Pomfret was followed by Vice Admiral Alvin Duke Chandler, who became the twenty-second President in October, 1951. In September, 1954, the Department of Jurisprudence became the Marshall-Wythe School of Law.

The General Assembly of Virginia at the 1960 Session established the system, The Colleges of William and Mary, and provided for an expanded Board of Visitors and the appointment of a Chancellor. Under this new system the College retained its ancient and official name, *The College of William and Mary in Virginia*. The other colleges, separate but integral parts of the system were: The Richmond Professional Institute, Richmond; The Norfolk College of William and Mary, Norfolk; Christopher Newport College, Newport News, and Richard Bland College in Southside (Petersburg area), the latter two institutions being two-year colleges.

Alvin Duke Chandler, who was appointed Chancellor of the new system, was succeeded on August 16, 1960, by Davis Y. Paschall who became the twenty-third President of the College. In 1961, the Department of Education became the School of Education and the Department of Marine Science became the School of Marine Science.

Legislation enacted at the 1962 session of the General Assembly disestablished the system, The Colleges of William and Mary, and reconstituted the four-year colleges, The Richmond Professional Institute and the Norfolk College of William and Mary, as independent institutions under control of separate boards. It was further provided that the two-year colleges at Newport News and Petersburg be supervised by a coordinator under the jurisdiction of the Board of Visitors, and that the ancient College of William and Mary be continued independently and encouraged to strengthen its program in the liberal arts and sciences, and develop the advanced professional and graduate programs appropriate to its tradition and competence. In 1967 the College was recognized as having attained university status in the modern sense, but the Board of Visitors stipulated that it should always be termed a college.

After passing through the three fires, the War of the Revolution, the War of 1861, and the economic chaos that followed both, William and Mary has survived, and today, in the unique setting of Williamsburg, with the cultural heritage of the past, and a clear academic vision for the future, it serves Virginia and the nation as it originally served Virginia and the Crown.

So intimately associated is the name of William and Mary with the names of famous Americans, that its history forms an important part of the history of the nation. Among the distinguished William and Mary names in the years subsequent to the greatest flowering of the eighteenth century are those of John Tyler, President of the United States; John Randolph of Roanoke; Philip Pendleton Barbour; William T. Barry; Alexander H. H. Stuart; William Cabell Rives; John T. Crittenden, author of the Crittenden Compromise; Lieutenant General Winfield Scott, hero of the Mexican War and Commander of the Army of the United States in 1861; Edmund Ruffin, famous Southern agriculturist; James M. Mason of "Mason and Slidell" fame; William B. Taliaferro, Major General, C. S. A.; William Barton Rogers, founder of the Massachusetts Institute of Technology; James Branch Cabell; Admiral Cary T. Grayson, and Admiral John L. Hall, Jr. The roll of fame of William and Mary includes the first president and fifteen members of the Continental Congress, four signers of the Declaration of Independence, three presidents of the United States, one chief justice and three associate justices of the Supreme Court, thirteen Cabinet members, twenty-nine senators, three speakers and fifty-five members of the House of Representatives, eighteen foreign ministers, one lieutenant general, twenty-two governors of Virginia, twenty-two judges of the Virginia Supreme Court of Appeals, besides many others distinguished in civil and military life, in letters, science, education, and the church.

THE HONOR SYSTEM

History

Among the most treasured traditions of the College of William and Mary is the student administered plan of discipline known as the Honor System. The essence of the Honor System is individual responsibility in all matters involving the student's honor, and the System assumes that every student is concerned with the strict observance of the principles of honorable conduct which he upon matriculation pledges to uphold, for his own sake, for the sake of his fellow students, and for the College.

The evolution of the Honor System over the years to its present form is best understood when considered against the background of changes in the character of the College itself. The College originally combined the higher school with a grammar school and served almost exclusively the sons of Gentlemen of the planter aristocracy, who took pride in their reputation as men of honor. The students formed a small, closely knit group, at times numbering fewer than a hundred; and a violation of the College code of discipline was punished by ostracism. Because of the existence of this gentleman's code of honor that characterized life and conduct at the College from its beginnings, it is difficult to pinpoint a specific date marking the beginning of the Honor System as a system. It was assuredly emerging in one form or another prior to 1779, when the College was reorganized under Jefferson's leadership, the year often claimed for its official establishment; and minor details of administration have changed from time to time to meet contemporary needs and conditions.

As the College has grown in size and complexity, the student body has become less and less the homogeneous group which characterized the earlier years, particularly to the latter part of the nineteenth century. The College no longer serves exclusively young men from restricted or provincial areas of social and economic life, but it is a co-educational institution serving several thousand students from all parts of the United States and from foreign countries. It is accepted that honor and responsibility are not absolute, intrinsic human values, but are acquired in a specific environment and are, therefore, relative to that environment.

*The President's House*

As a relative value, honor means many different things to many different people. Today, for immediate purposes within the College community, its applications are restricted to four specific areas—lying, stealing, cheating, and failure to report an infraction of which one has firsthand knowledge. This restriction of definition enables the theoretic concept of honor to be applied on a particular level within a heterogeneous body.

Meaning.

As numerous bulletins state, the discipline of the College was entirely “in the hands of the President and faculty” until the twentieth century, when student government was instituted at William and Mary. Today the Honor System is student administered through elected councils.

Whereas the present administration of the Honor System by the students through elected councils evolved during the 1920's, the spirit and essence of the Honor System have historically threaded the years undisturbed and, guarded jealously, have remained intact.

OFFICERS OF THE COLLEGE

Board of Visitors

WALTER G. MASON

Rector

ERNEST GOODRICH

Vice Rector

FRANK W. COX

Secretary

TERM EXPIRES MARCH 6, 1970

R. WILLIAM ARTHUR

Wytheville, Virginia

MRS. ROBERT V. H. DUNCAN

Alexandria, Virginia

MRS. VERNON M. GEDDY

Williamsburg, Virginia

RUSSELL B. GILL

Petersburg, Virginia

E. RALPH JAMES

Hampton, Virginia

WALTER G. MASON

Lynchburg, Virginia

BLAKE T. NEWTON, JR.

New York, New York

WALTER S. ROBERTSON

Richmond, Virginia

WILLIAM R. SAVAGE, JR.

Suffolk, Virginia

J. E. ZOLLINGER

Fort Lauderdale, Florida

TERM EXPIRES MARCH 6, 1972

WILLITS H. BOWDITCH

Newport News, Virginia

R. HARVEY CHAPPELL, JR.

Richmond, Virginia

FRANK W. COX

Virginia Beach, Virginia

ERNEST GOODRICH

Surry, Virginia

THOMAS B. STANLEY

Stanleytown, Virginia

JOHN C. SWANSON

Danville, Virginia

HARRY D. WILKINS

Eastville, Virginia

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Administration

DAVIS Y. PASCHALL	<i>President</i>
S. DEAN OLSON	<i>Administrative Assistant</i>
JANE H. LATHAM	<i>Recording Secretary,</i>
	<i>Board of Visitors</i>
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JOHN H. WILLIS, JR.	<i>Assistant Vice President</i>
JOHN E. DONALDSON	<i>Assistant Vice President</i>
NELL R. JONES	<i>Administrative Assistant</i>

ROBERT T. SIEGEL	<i>Director, Space Radiation</i>
	<i>Effects Laboratory</i>
JOHN SELBY	<i>Acting Dean of Graduate Studies</i>
WARREN HEEMANN	<i>Director, Office of Institutional</i>
	<i>Resources</i>
WILLIAM C. POLLARD	<i>Librarian</i>

Officers of the College

JAMES H. RENZ	<i>Associate Librarian</i>
RAYMOND SOUTHWORTH	<i>Director of the Computer Center</i>
RUSSELL P. NORMAN	<i>Director of the Psychological Counseling Center</i>
DUDLEY M. JENSEN	<i>Registrar</i>
ELIZABETH R. STEARNS	<i>Assistant Registrar</i>
KATHERINE K. FUREY	<i>Assistant Registrar</i>
JOHN C. BRIGHT	<i>Director, Student Aid and Placement</i>
STANLEY M. BROWN ¹	<i>Assistant Director, Student Aid and Placement</i>

Faculty of Arts and Sciences

HAROLD L. FOWLER	<i>Dean</i>
ROBERT A. JOHNSTON	<i>Associate Dean</i>

Marshall-Wythe School of Law

JOSEPH CURTIS	<i>Dean</i>
JAMES P. WHYTE, JR.	<i>Associate Dean</i>
ANNA B. JOHNSON	<i>Law Librarian</i>

School of Business Administration

CHARLES L. QUITTMAYER	<i>Dean</i>
ALGIN B. KING	<i>Associate Dean</i>

School of Education

RICHARD B. BROOKS	<i>Dean</i>
ROBERT C. JONES	<i>Associate Dean</i>

School of Marine Science

WILLIAM J. HARGIS, JR.	<i>Dean</i>
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¹Appointed, January 1, 1969

School of Continuing Studies

DONALD J. HERRMANN	<i>Dean</i>
E. LEON LOONEY	<i>Associate Dean and Director of Evening College and Extension</i>
PAUL CLEM	<i>Director of Summer Session</i>
JOHN C. TREDENNICK	<i>Director of Administration, Virginia Associated Research Center</i>

Business Affairs and Plant Management

ROBERT T. ENGLISH, JR.	<i>Bursar</i>
VERNON L. NUNN	<i>Treasurer-Auditor</i>
DENNIS K. COGLE	<i>Assistant to the Bursar</i>
IRVING H. ROBITSHEK	<i>Personnel Supervisor</i>
FLOYD WHITAKER	<i>Internal Auditor</i>
WEBB HOPPER	<i>Grants Fiscal Administrator</i>
ERVIN D. FARMER	<i>Superintendent of Buildings and Grounds</i>
CHARLES E. CHANDLER	<i>Director of Purchase and Stores</i>
JOHN C. TREDENNICK	<i>Business Manager, Virginia Associated Research Center</i>

Admissions

ROBERT P. HUNT	<i>Dean of Admissions</i>
W. S. SADLER	<i>Assistant Dean of Admissions</i>
REX TILLOTSON	<i>Director of Admissions for Men</i>
HARRIET E. REID	<i>Director of Admissions for Women</i>

Student Affairs

J. WILFRED LAMBERT	<i>Dean of Students</i>
CARSON H. BARNES, JR.	<i>Dean of Men</i>
WALLACE A. ELLIOTT	<i>Assistant Dean of Men</i>
JOEL C. MCGURK	<i>Assistant Dean of Men for Housing</i>
BIRDENA E. DONALDSON	<i>Dean of Women</i>
CAROLYN L. MOSELEY	<i>Assistant Dean of Women</i>
ROBERT E. DEBORD, M.D.	<i>College Physician</i>
JOSEPH D. BROWN, III, M.D.	<i>College Physician</i>
WARREN J. GREEN	<i>Director of the Campus Center</i>

Development and Public Information

JAMES S. KELLY

*Director of Development and
Executive Secretary,
Society of the Alumni*

GORDON C. VLIET

Director of Alumni Affairs

ROSS L. WEEKS, JR.

Director of Public Information

BARBARA BALL

Information Officer

Athletics

H. LESTER HOOKER, JR.

Director of Athletics

EDMUND T. DERRINGE

Business Manager

BARRY FRATKIN

Publicity Director

Administrative Council

Established for the purpose of coordinating matters of administrative policy for the College as a whole. Its membership includes: Vice President, *Chairman*; Assistant Vice Presidents; Dean of the Faculty of Arts and Sciences; Dean of the School of Business Administration; Dean of the School of Continuing Studies; Dean of the School of Education; Dean of the School of Marine Science; Dean of the Marshall-Wythe School of Law; Dean of Graduate Studies; Dean of Students; Bursar; and Director of Development.

INSTRUCTIONAL STAFF¹

DAVIS Y. PASCHALL (1960, 1960), *President of the College*. A.B., M.A., College of William and Mary; Ed.D., University of Virginia.

THOMAS CONNER ATKESON (1954, 1954), *Chancellor Professor of Taxation, Emeritus*. B.S., M.S. and Ph.D., Georgetown University.

MARTHA ELIZABETH BARKSDALE (1936, 1921), *Associate Professor of Physical Education for Women, Emeritus*. O.D., Gymnastic Peoples College, Ollerup, Denmark; A.B. and M.A., College of William and Mary.

EMILY ELEANOR CALKINS (1953, 1927), *Associate Professor of Mathematics, Emeritus*. A.B., College of William and Mary; M.A., University of Michigan.

JAMES DAVID CARTER, JR. (1930, 1927), *Associate Professor of Modern Languages, Emeritus*. A.B., College of William and Mary; Docteur de l'Universite de Toulouse.

JOSEPH M. CORMACK (1946, 1946), *Professor of Law, Emeritus*. A.B., Northwestern University; LL.B. and J.S.D., Yale University.

WAYNE FULTON GIBBS (1931, 1926), *Professor of Accountancy, Emeritus*. B.S. and M.S., University of Illinois; C.P.A.

WILLIAM GEORGE GUY (1930, 1925), *Chancellor Professor of Chemistry, Emeritus*. B.Sc., Mt. Allison University, Canada; A.B., Oxford University; Ph.D., University of Chicago.

ANDREW C. HAIGH (1958, 1944), *Professor of Music, Emeritus*. A.B., University of Michigan; M.A. and Ph.D., Harvard University.

ALTHEA HUNT (1955, 1926), *Professor of Fine Arts, Emeritus*. A.B., Allegheny College; M.A., Radcliffe College; Litt.D., Allegheny College.

LAWRENCE C. LEONARD (1957, 1955), *Lecturer in Mathematics, Emeritus*. B.S., U.S. Military Academy.

¹The first date indicates the year when the present rank was attained; the second date the year when the individual was first appointed to the instructional staff. A third date indicates the year of reappointment. All changes in the Faculty that occurred in the session 1968-69 are included in this list.

JEAN STEWART MAJOR (1928, 1928), *Associate Professor of Home Economics, Emeritus*. B.S. and M.A., Columbia University.

RICHARD LEE MORTON (1921, 1919), *Chancellor Professor of History, Emeritus*. A.B., Hampden-Sydney College; M.A., University of Virginia and Harvard University; Ph.D., University of Virginia; Litt.D., Hampden-Sydney College; LL.D., College of William and Mary.

MARCEL REBOUSSIN (1962, 1946), *Professor of Modern Languages, Emeritus*. Professorat de français, Ecole Normale Supérieure de St. Cloud; M.A., Columbia University; Agrégé des lettres, Sorbonne, Paris.

GEORGE JEREMIAH RYAN (1945, 1935), *Professor of Ancient Languages, Emeritus*. A.B. and M.A., St. Louis University; Ph.D., University of Michigan.

SHIRLEY DONALD SOUTHWORTH (1928, 1927), *Professor of Economics, Emeritus*. A.B., M.A. and Ph.D., Princeton University.

ALBION GUILFORD TAYLOR (1928, 1927), *Chancellor Professor of Political Economy, Emeritus*. A.B., Des Moines University; M.A., University of Nebraska; Ph.D., University of Illinois.

ANTHONY PELZER WAGENER (1929, 1929), *Chancellor Professor of Ancient Languages, Emeritus*. A.B., College of Charleston; Ph.D., The Johns Hopkins University.

MARGARET WINDER (1959, 1948, 1959), *Assistant Professor of Education, Emeritus*. B.S., Madison College; M.A., College of William and Mary.

DUDLEY WARNER WOODBRIDGE (1932, 1927), *Chancellor Professor of Law, Emeritus*. A.B. and J.D., University of Illinois.

JOSEPH S. AGEE (1965, 1958), *Assistant Professor of Physical Education for Men*. B.S., and M.Ed., College of William and Mary.

FAY T. ALEWYNSE (1968, 1968), *Instructor in Physical Education for Women*. Connecticut College for Women; New School of Social Research.

NATHAN ALTSHULER (1967, 1960), *Professor of Anthropology*. A.B., University of Michigan; Ph.D., Harvard University.¹

CARL M. ANDERSEN (1967, 1967), *Assistant Professor of Physics*. B.S. and M.S., University of Michigan; Ph.D., University of Pennsylvania.

CHARLES HARPER ANDERSON (1957, 1946), *Lecturer in Law*. A.B. and B.C.L., College of William and Mary; LL.M., University of Virginia.

JAY D. ANDREWS (1959, 1946), *Professor of Marine Science*. B.S., Kansas State College; M.S. and Ph.D., University of Wisconsin.

JEAN C. ANDREWS (1965, 1965), *Instructor in English*. A.B., Pembroke College; M.A., Columbia University.

M. JOY ARCHER (1968, 1968), *Assistant Professor of Physical Education for Women*. B.S., Skidmore College.

ALFRED R. ARMSTRONG (1961, 1933), *Professor of Chemistry*. B.S., and M.A., College of William and Mary; Ph.D., University of Virginia.

HOWARD H. ASHBURY (1960, 1960), *Lecturer in Psychology*. B.S. and M.D., University of Virginia.

HARRY E. ATKINSON (1961, 1961), *Lecturer in Law*. George Washington University and F.B.I. National Academy; Law Certificate, Marshall-Wythe School of Law.

JOHN J. AVIOLI (1967, 1967), *Instructor in Mathematics*. B.S., West Chester State College; M.S., University of Delaware.

ELISABETH E. BACKHAUS (1967, 1966), *Assistant Professor of Modern Languages*. A.B., M.A. and Ph.D., University of Connecticut.

ROBERT SYDNOR BAILEY (1951, 1951), *Assistant Professor of Marine Science*. B.S., Randolph-Macon College; M.A., College of William and Mary.

JOHN T. BALDWIN, JR. (1946, 1937, 1946), *Professor of Biology*. A.B., College of William and Mary; Ph.D., University of Virginia.

¹On leave of absence second semester, 1968-69.

- DONALD L. BALL (1965, 1960), *Assistant Professor of English*. A.B., University of Richmond; M.A., University of Delaware; Ph.D., University of North Carolina.
- CAROL E. BALLINGALL (1965, 1965), *Assistant Professor of Anthropology*. A.B., Wayne State University; M.A., University of Chicago.
- J. WORTH BANNER (1965, 1949, 1964), *Professor of Modern Languages*. B.S., Roanoke College; M.A. and Ph.D., University of North Carolina.
- NORMAN F. BARKA (1965, 1965), *Assistant Professor of Anthropology*. A.B., Beloit College; M.A. and Ph.D., Harvard University.
- ROBERT A. BARRY (1966, 1964), *Assistant Professor of Economics*. A.B., Stanford University.
- JOANNE M. BASSO (1967, 1967), *Instructor in Modern Languages*. A.B., Connecticut College for Women; M.A., Middlebury College.
- ELLEN ROSEN BAUER (1967, 1967), *Assistant Professor of Psychology*. A.B., Carleton College; M.A. and Ph.D., University of Illinois.
- EDWIN C. BAXLEY, JR. (1968, 1968), *Assistant Professor of Business Administration*. B.B.A., Baylor University; M.B.A., Louisiana State University.
- DONALD J. BAXTER (1967, 1967), *Assistant Professor of Government*. A.B., Sacramento State College; M.A., Syracuse University.
- LOUIS M. BECK (1965, 1965), *Assistant Professor of Sociology*. A.B., Blackburn College; M.A., Louisiana State University.
- LAWRENCE S. BECKHOUSE (1968, 1968), *Assistant Professor of Sociology*. A.B., Knox College; M.A. and Ph.D., Vanderbilt University.
- JAMES RUSH BEELER (1967, 1964), *Associate Professor of Modern Languages*. A.B., M.A. and Ph.D., University of North Carolina.
- PAULA M. BELSKIS (1966, 1966), *Instructor in Modern Languages*. A.B. and M.A., Marquette University.
- DALE E. BENSON (1967, 1967), *Visiting Assistant Professor of History*. A.B., Pacific Lutheran University; M.A., University of Maine.

- BERNARDO BERDICHEWSKY (1968, 1968), *Visiting Professor of Anthropology*. A.B., University of Chile; M.A. and Ph.D., University of Madrid.¹
- RICHARD W. BESNIER (1967, 1967), *Instructor in Physical Education for Men*. B.S., University of Maryland; M.Ed., College of William and Mary.
- R. CARLYLE BEYER (1965, 1965), *Professor of History*. A.B., Hamline University; A.B. and M.A., Oxford University; Ph.D., University of Minnesota.
- KENNETH F. BICK (1966, 1961), *Professor of Geology*. B.S., M.S. and Ph.D., Yale University.
- MARTHA FLAMM BIEN (1967, 1967), *Instructor in Modern Languages*. A.B., Barnard College; M.A., University of Virginia.
- HALKA BILINSKI (1968, 1968), *Research Assistant Professor of Chemistry*. B.S., M.S. and Ph.D., University of Zagreb.
- ROBERT E. L. BLACK (1965, 1959), *Professor of Biology and Marine Science*. A.B., William Jewell College; Ph.D., University of Washington.
- RANDOLPH C. BLASING (1967, 1967), *Instructor in English*. A.B., Carleton College; M.A., University of Chicago.
- HOWARD W. BLOOMBERG (1968, 1968), *Assistant Professor of Physics*. B.S., California Institute of Technology; M.S. and Ph.D., Northwestern University.
- JAMES P. BLOUNT (1967, 1967), *Assistant Instructor and Laboratory Technician in Modern Languages*.
- MORRIS L. BREHNIER (1961, 1959), *Professor of Marine Science*. B.S., Eastern Illinois University; M.S. and Ph.D., Michigan State University.
- GARNETT R. BROOKS, JR. (1967, 1962), *Associate Professor of Biology*. B.S. and M.S., University of Richmond; Ph.D., University of Florida.

¹Second semester, 1968-69.

- RICHARD B. BROOKS (1967, 1947, 1967), *Professor of Education*. B.P.E., Springfield College (Massachusetts); M.A., University of Pennsylvania; Ed.D., University of Virginia.
- MARION M. BROWN (1966, 1966), *Instructor in Theatre and Speech*. A.B. and M.A., University of California at Los Angeles.
- RICHARD M. BROWN (1967, 1967), *Professor of History*. A.B., Reed College; A.M. and Ph.D., Harvard University.
- G. WILLIAM BULLOCK, JR. (1967, 1967), *Associate Professor of Education*. A.B., Lynchburg College; M.Ed. and Ed.D., University of Virginia.
- HARRIS BURNS, JR. (1968, 1968), *Assistant Professor of Chemistry*. B.Ch.E., M.S. and Ph.D., Georgia Institute of Technology.
- MITCHELL A. BYRD (1963, 1956), *Professor of Biology*. B.S., M.S. and Ph.D., Virginia Polytechnic Institute.
- IAN P. CALLARD (1968, 1966), *Associate Professor of Biology*. B.S. and Ph.D., The University of Sheffield (England).
- LESTER J. CAPPON (1946, 1946), *Lecturer in History*. A.B. and M.A., University of Wisconsin; M.A. and Ph.D., Harvard University.
- JAMES W. CARPENTER (1966, 1966), *Instructor in Physical Education for Men*. A.B., Ohio Wesleyan University; M.A., Kent State University.
- JIM B. CARROLL (1967, 1967), *Research Associate in Physics*. B.S. and M.S., University of Illinois; Ph.D., University of California, Berkeley.
- JANE CARSON (1963, 1963), *Lecturer in History*. A.B., Flora MacDonald College; M.A. and Ph.D., University of Virginia.
- WAYNE E. CARTER (1967, 1967), *Instructor in Mathematics*. B.S., Gorham State Teachers College; M.A., University of Maine.
- BENJAMIN RALPH CATO, JR. (1961, 1955), *Associate Professor of Mathematics*. A.B. and A.M., Duke University.
- BETTY LYNNE CATRON (1966, 1966), *Lecturer in Music*. B.M. and M.M., Millikin University.

- LOUIS E. CATRON (1966, 1966), *Assistant Professor of Theatre and Speech*. A.B., Millikin University; M.A. and Ph.D., Southern Illinois University.
- ROY L. CHAMPION (1967, 1967), *Assistant Professor of Physics*. B.S. and M.S., North Carolina State University at Raleigh; Ph.D., University of Florida.
- ROYCE W. CHESSEY (1962, 1962), *Associate Professor of Education*. A.B., Wake Forest; M.Ed., College of William and Mary.
- IAN CHESTER-JONES (1968, 1968), *Visiting Professor of Biology*. B.Sc., Ph.D. and D.Sc., University of Liverpool, England.
- KEE IL CHOI (1968, 1965), *Associate Professor of Economics*. A.B., Princeton University; Ph.D., Harvard University.
- PAUL N. CLEM (1968, 1959), *Professor of Education*. A.B., Bridgewater College; M.A. and Ed.D., Michigan State University.
- STEPHEN C. CLEMENT (1964, 1964), *Assistant Professor of Geology*. A.B., Cornell University; M.S., University of Utah; Ph.D., Cornell University.
- WILLIAM S. COBB, JR. (1967, 1967), *Assistant Professor of Philosophy*. A.B., Wake Forest College; B.D., Union Theological Seminary, New York; Ph.D., Vanderbilt University.
- JAMES W. COKE (1964, 1957), *Associate Professor of Modern Languages*. A.B., Western Kentucky University; M.A. and Ph.D., Indiana University.
- GEORGE D. COLE, JR. (1968, 1968), *Assistant Professor of Business Administration*. B.A., Duke University; B.D., Yale University; Ed.D., Columbia University.
- HENRY E. COLEMAN (1968, 1964), *Assistant Professor of Fine Arts*. A.B., College of William and Mary; M.A., State University of Iowa.
- JOHN W. CONLEE (1968, 1968), *Assistant Professor of English*. A.B., University of Southern California; M.A. and Ph.D., University of Illinois.
- LUTHER THOMAS CONNER, JR. (1964, 1964), *Assistant Professor of Mathematics*. B.S., Virginia Polytechnic Institute; M.A., University of North Carolina.

- HIBBERT DELL COREY (1943, 1929), *Professor of Business Administration*. A.B., University of Michigan; M.A., Ohio State University.
- BRADNER W. COURSEN (1968, 1968), *Associate Professor of Biology*. A.B., Drew University; M.S. and Ph.D., University of Maryland.
- TAYLOR K. COUSINS (1968, 1968), *Assistant Professor of Economics*. B.S., University of Richmond.
- JAMES D. COWLES (1968, 1968), *Assistant Professor of Education*. B.S., University of Alabama; M.Ed., Rutgers University; Ph.D., University of Alabama.
- EDWARD P. CRAPOL (1967, 1967), *Assistant Professor of History*. B.S., State University of New York at Buffalo; M.S. and Ph.D., University of Wisconsin.
- GEORGE W. CRAWFORD (1960, 1960), *Associate Professor of Physics*. B.S., Davidson College; M.S., University of North Carolina; Ph.D., Ohio State University.
- JOHN B. CRITTENDEN, CAPTAIN (1968, 1968), *Assistant Professor of Military Science*. B.S., Virginia Polytechnic Institute.
- PATRICIA B. CROWE (1965, 1965), *Assistant Professor of Physical Education for Women*. B.S., Sargent College, Boston University; M.S., University of North Carolina, Greensboro.
- FREDERIC R. CROWNFIELD, JR. (1968, 1956), *Professor of Physics*. A.B., Harvard College; M.S. and Ph.D., Lehigh University.
- RICHARD C. CURRY (1965, 1965), *Assistant Professor of Government*. A.B., Eastern Michigan University; M.A. and Ph.D., University of Michigan.
- JOSEPH CURTIS (1953, 1948), *Professor of Law*. B.S., LL.B. and LL.M., New York University.
- WAGIH G. DAFASHY (1965, 1965), *Assistant Professor of Business Administration*. B.Com., Ein Shams University, Cairo; M.B.A., University of Texas; Ph.D., University of Arkansas.
- LILIANE KREBS DAN (1963, 1963), *Instructor in Modern Languages*. A.B., University of Paris; M.A., Florida State University.

- JAMES S. DARLING (1961, 1961), *Lecturer in Music*. A.B., Yale University; B.M., Yale University School of Music; M.M., University of Michigan.
- CHARLES EDWARD DAVIDSON (1964, 1949), *Professor of English*. A.B., Princeton University; M.A. and Ph.D., Yale University.
- WILLIAM F. DAVIS, JR. (1968, 1960), *Associate Professor of English*. A.B., Princeton University; M.A. and Ph.D., Yale University.
- WILLIAM JACKSON DAVIS (1963, 1963), *Associate Professor of Marine Science*. B.S., Virginia Polytechnic Institute; Ph.D., University of Kansas.
- HUBERT A. DAW (1961, 1961), *Assistant Instructor in Psychology*. Associate Electronic Engineer, College of William and Mary (Norfolk).
- JEWELL L. DELAUNE (1966, 1966), *Lecturer in Education*. A.B., M.A. and B.S. in L.S. Louisiana State University.
- PETER L. DERKS (1965, 1960), *Associate Professor of Psychology*. A.B., Knox College; M.A., Harvard University; Ph.D., University of Pennsylvania.¹
- EDMUND T. DERRINGE (1963, 1957), *Instructor in Physical Education for Men*. B.S., Georgetown University; M.Ed., College of William and Mary.
- ELSA S. DIDUK (1968, 1966), *Assistant Professor of Modern Languages*. B.S., Temple University; M.A., Columbia University.
- CIRILA DJORDJEVIC (1968, 1968), *Visiting Associate Professor of Chemistry*. B.S., Zagreb University; Ph.D., University College, London, England.
- CAROL A. DOLIBER (1968, 1968), *Instructor in Modern Languages*. A.B., University of Massachusetts; M.A., Boston College.
- CARL R. DOLMIETSCH (1967, 1959), *Professor of English*. A.B. and M.A., Drake University; Ph.D., University of Chicago.
- BIRDENA E. DONALDSON (1956, 1956), *Associate Professor of History*. A.B., Franklin College; M.A., Northwestern University; Ed.D., Columbia University.

¹On leave of absence second semester 1968-69.

- JOHN E. DONALDSON (1968, 1966), *Associate Professor of Law*. A.B., University of Richmond; B.C.L., College of William and Mary; LL.M., Georgetown University.
- J. SCOTT DONALDSON (1966, 1966), *Assistant Professor of English*. A.B., Yale University; M.A. and Ph.D., University of Minnesota.
- LYNN D. DOVERSPIKE (1967, 1967), *Assistant Professor of Physics*. B.S., Oklahoma State University; M.S., University of California, Los Angeles; Ph.D., University of Florida.
- JOHN L. DUPUY (1968, 1968), *Assistant Professor of Marine Science*. B.S., Oglethorpe University; M.S., Rutgers, The State University; Ph.D., University of Washington.
- HUGH B. EASLER (1962, 1962), *Assistant Professor of Mathematics*. A.B., Wofford College; M.S., University of South Carolina.
- MORTON ECKHAUSE (1967, 1964), *Associate Professor of Physics*. A.B., New York University; M.S. and Ph.D., Carnegie Institute of Technology.
- VERNON H. EDMONDS (1967, 1967), *Associate Professor of Sociology*. A.B., Oklahoma State University; M.S., Purdue University; Ph.D., University of Missouri.
- JACK D. EDWARDS (1966, 1962), *Associate Professor of Government*. A.B., Macalester College; LL.B., Harvard Law School; Ph.D., Vanderbilt University.
- NATHANIEL Y. ELLIOTT (1966, 1963), *Assistant Professor of English*. B.S., State University of New York, Fredonia; M.A., Syracuse University; Ph.D., Cornell University.
- ANTHONY J. ESLER (1967, 1962), *Associate Professor of History*. A.B., University of Arizona; M.A. and Ph.D., Duke University.¹
- FRANK BROOKE EVANS, III (1961, 1947), *Professor of English*. A.B., Amherst College; M.A. and Ph.D., Princeton University.
- HARRIET H. FARRIER (1968, 1968), *Instructor in Mathematics*. B.S. and M.S., Virginia Polytechnic Institute.

¹On leave of absence, 1968-69.

- NANCY M. FARRISS (1968, 1968), *Assistant Professor of History*. A.B., Barnard College; Ph.D., University of London.
- CARL A. FEHR (1961, 1945), *Professor of Music*. A.B. and M.A., University of Texas; M.Mus., University of Michigan; Ed.D., Columbia University.
- ROBERT J. FEHRENBACH (1967, 1967), *Assistant Professor of English*. A.B., Westminster College (Missouri); M.A., Vanderbilt University; Ph.D., University of Missouri.
- EMERIC FISCHER (1966, 1964), *Associate Professor of Law*. B.S., University of South Carolina; B.C.L. and L.&T.M., College of William and Mary.
- S. STUART FLANAGAN (1968, 1968), *Assistant Professor of Education*. B.S., Washington and Lee University; M.Ed. and Ed.D., University of Virginia.
- LEWIS A. FOSTER, JR. (1962, 1954, 1955), *Associate Professor of Philosophy*. A.B. and M.A., University of Virginia.
- HAROLD LEES FOWLER (1946, 1934), *Professor of History*. A.B., Dartmouth College; M.A. and Ph.D., Harvard University.
- ALVIN Z. FREEMAN (1967, 1967), *Associate Professor of History*. B.S., Virginia Military Institute; M.A., Brown University; Ph.D., University of Toronto.
- MARGARET W. FREEMAN (1967, 1967), *Instructor in English*. A.B., Brown University; M.A., Smith College; M.A., Middlebury College.
- HERBERT FRIEDMAN (1967, 1963), *Associate Professor of Psychology*. A.B., Brooklyn College; M.A. and Ph.D., University of Connecticut.
- PHILIP J. FUNIGIELLO (1968, 1966), *Assistant Professor of History*. A.B., Hunter College; M.A., University of California, Berkeley; Ph.D., New York University.
- HERBERT O. FUNSTEN (1968, 1963), *Professor of Physics*. A.B., M.A. and Ph.D., University of Virginia.
- ARMAND J. GALFO (1968, 1958), *Professor of Education*. A.B., M.Ed. and Ed.D., University of Buffalo.
- DAVID A. GAPP (1968, 1968), *Lecturer in Biology*. B.S., College of William and Mary.

- MARTIN A. GARRETT (1968, 1963), *Associate Professor of Economics*. B.S., Middle Tennessee State College; Ph.D., Vanderbilt University.
- KEVIN E. GEOFFROY (1965, 1965), *Assistant Professor of Education*. A.B., Tufts University; M.S., Boston University; Ed.D., Arizona State University.¹
- ASHTON L. GODLEY, JR. (1968, 1968), *Lecturer in Physical Education for Men*. A.B., Piedmont College.
- BRUCE K. GOODWIN (1966, 1963), *Associate Professor of Geology*. A.B., University of Pennsylvania; M.S. and Ph.D., Lehigh University.
- BRUCE S. GRANT (1968, 1968), *Assistant Professor of Biology*. B.S., Bloomsburg State College; M.S. and Ph.D., North Carolina State University.
- GEORGE C. GRANT (1968, 1968), *Assistant Professor of Marine Science*. B.S., University of Massachusetts; M.A. College of William and Mary; Ph.D., University of Rhode Island.
- LEONARD L. GRAVES, JR. (1968, 1968), *Lecturer in Business Administration*. A.B., College of William and Mary.²
- DAVID J. GRAY (1967, 1959), *Professor of Sociology*. A.B., M.A. and Ph.D., The Pennsylvania State University.
- LOIS GRAY (1965, 1965), *Lecturer in Fine Arts*. B.S. and M.Ed., The Pennsylvania State University.
- GEORGE W. GRAYSON, JR. (1968, 1968), *Assistant Professor of Government*. A.B., University of North Carolina; M.A. and Ph.D., Johns Hopkins University.
- KENNETH O. GREEN (1968, 1968), *Instructor in English*. A.B., Vanderbilt University; M.F.A., University of Iowa.
- ANTHONY L. GUENTHER (1967, 1967), *Assistant Professor of Sociology*. A.B., Vanderbilt University; M.A., Northwestern University.
- BRUCE H. GUERNSEY (1967, 1967), *Instructor in English*. A.B., Colgate University; M.A., University of Virginia.

¹On leave of absence, 1968-69.

²Second semester, 1968-69.

- ALBERT E. HAAK (1959, 1947), *Associate Professor of Theatre and Speech*. A.B., Lawrence College; M.A., College of William and Mary.
- GUSTAV W. HALL (1968, 1963), *Associate Professor of Biology*. A.B., and M.S., Ohio University; Ph.D., Indiana University.
- MARGARET L. HAMILTON (1964, 1953), *Associate Professor of Government*. A.B., University of Michigan; M.A. and Ph.D., Columbia University.
- BEN A. HAMMACK (1958, 1958), *Lecturer in Psychology*. A.B. and Ph.D., University of Texas.
- EUGENE RAE HARCUM (1965, 1958), *Professor of Psychology*. B.S., College of William and Mary; M.A., The Johns Hopkins University; Ph.D., University of Michigan.
- WILLIAM J. HARGIS, JR. (1959, 1955), *Professor of Marine Science*. A.B. and M.A., University of Richmond; Ph.D., Florida State University.
- ROBERT F. HARTMAN, JR. (1967, 1967), *Associate Professor of Business Administration*. B.S., Lehigh University; M.B.A., University of Pennsylvania; C.P.A., State of Pennsylvania.
- CAROLINE HAUSSERMAN (1965, 1965), *Assistant Professor of Physical Education for Women*. A.B., Tufts University.
- DEXTER S. HAVEN (1959, 1949), *Associate Professor of Marine Science*. B.S. and M.S., Rhode Island State College.
- THOMAS K. HEARN, JR. (1968, 1965), *Associate Professor of Philosophy*. A.B., Birmingham-Southern College; B.D., Southern Baptist Theological Seminary; Ph.D., Vanderbilt University.
- P. WARREN HEEMANN (1966, 1962), *Assistant Professor of English*. A.B. and M.A., University of North Carolina.
- DONALD J. HERRMANN (1963, 1951), *Professor of Education*. B.Ed., Northern Illinois University; M.A. and Ph.D., Michigan State University.
- NOELIE HERZOG (1967, 1967), *Instructor in Sociology*. A.B., University of South Florida; M.A., University of California, Los Angeles.

- TREVOR B. HILL (1963, 1963), *Associate Professor of Chemistry*. B.S., University of Alberta, Canada; Ph.D., Cornell University.
- ELIZABETH L. HODGES (1966, 1966), *Instructor in Modern Languages*. A.B. and M.A., Emory University.
- E. LEWIS HOFFMAN (1968, 1947), *Professor of Modern Languages*. B.S., Roanoke College; M.A. and Ph.D., George Washington University.
- DAVID L. HOLMES, JR. (1968, 1965), *Assistant Professor of Religion*. A.B., Michigan State University; M.A., Columbia University; M.A., Princeton University.
- H. LESTER HOOKER, JR. (1963, 1963), *Assistant Professor of Physical Education for Men*. A.B., M.Ed., College of William and Mary.
- WRIGHT B. HOUGHLAND (1967, 1967), *Lecturer in Fine Arts*. B.Arch., University of Virginia.
- CLYDE V. HOUSE (1966, 1966), *Assistant Professor of Government*. A.B. and M.P.A., University of Michigan.
- STANLEY HUMMEL (1966, 1964), *Research Engineer in Physics*.
- PAUL V. HYER (1968, 1968), *Instructor in Marine Science*. B.S., University of Notre Dame.
- SATOSHI ITO (1966, 1965), *Assistant Professor of Sociology*. A.B., California State College at Long Beach; M.A., University of North Carolina.
- JEREMY C. JACKSON (1968, 1968), *Visiting Assistant Professor of History*. A.B., Cambridge University; M.A., University of Pennsylvania.
- DAVID CLAY JENKINS (1968, 1956), *Professor of English*. A.B. and M.A., University of Alabama; Ph.D., University of Iowa.
- JOHN E. JENKINS (1967, 1967), *Assistant Professor of Education*. A.B., University of Richmond; M.Ed., College of William and Mary.¹
- DUDLEY M. JENSEN (1962, 1951), *Associate Professor of Physical Education for Men*. B.S., Springfield College; M.A., Teachers College, Columbia University.

¹On leave of absence, 1968-69.

- GERALD H. JOHNSON (1966, 1965), *Assistant Professor of Geology*. B.S., M.A. and Ph.D., Indiana University.
- HERBERT A. JOHNSON (1967, 1967), *Lecturer in History*. A.B., M.A. and Ph.D., Columbia University; LL.B., New York University Law School.
- JOSEPH R. JOHNSON (1968, 1967), *Assistant Professor of Law*. A.B. and J.D., College of William and Mary.
- LUDWELL H. JOHNSON, III (1965, 1955), *Professor of History*. A.B. and Ph.D., The Johns Hopkins University.¹
- ROBERT A. JOHNSTON (1966, 1963), *Professor of Psychology*. A.B., Haverford College; M.A. and Ph.D., State University of Iowa.
- THOMAS H. JOLLS (1968, 1968), *Professor of Law*. A.B. and J.D., University of Michigan.
- DAVID H. JONES (1967, 1967), *Associate Professor of Philosophy*. A.B., University of Missouri; M.A. and Ph.D., Harvard University.
- EDWARD E. JONES (1966, 1963), *Assistant Professor of Physical Education for Men*. B.S. and M.Ed., College of William and Mary.
- GILBERT C. JONES (1964, 1964), *Assistant Professor of Business Administration*. A.B. and M.B.A., Wharton School of Finance, University of Pennsylvania; J.D., College of William and Mary.
- J. WARD JONES, JR. (1967, 1961), *Chancellor Professor of Ancient Languages*. A.B., University of Richmond; M.A. and Ph.D., University of North Carolina.
- ROBERT C. JONES (1967, 1967), *Associate Professor of Education*. B.S., Oklahoma City University; M.S., Oklahoma State University; Ph.D., University of Oklahoma.
- W. MELVILLE JONES (1953, 1928), *Professor of English*. A.B., Allegheny College; M.A., Ohio State University; Ph.D., Harvard University.
- E. B. JOSEPH (1961, 1959), *Professor of Marine Science*. B.S., University of Florida; M.S. and Ph.D., Florida State University.

¹On leave of absence second semester, 1968-69.

- ALEXANDER KALLOS (1964, 1949), *Professor of Modern Languages*. M.A. and Ph.D., University of Pennsylvania.
- JOHN ROBERT KANE (1968, 1964), *Assistant Professor of Physics*. B.S., Loyola College; M.S. and Ph.D., Carnegie Institute of Technology.
- EDWARD KATZ (1963, 1947), *Instructor in Chemistry*. B.S., College of William and Mary.
- E. MORGAN KELLEY, JR. (1968, 1968), *Assistant Professor of Modern Languages*. A.B., Washington and Lee University; M.A. and Ph.D., Michigan State University.
- R. WAYNE KERNODLE (1953, 1945), *Professor of Sociology*. A.B., M.A. and Ph.D., University of North Carolina.
- RICHARD L. KIEFER (1968, 1965), *Associate Professor of Chemistry*. A.B., Drew University; Ph.D., University of California, Berkeley.
- HAMILTON KILLEN, JR. (1968, 1968), *Assistant Professor of Modern Languages*. A.B., Maryland University; M.A., Stanford University.
- CHONGHAN KIM (1966, 1964), *Associate Professor of Government*. A.B., M.A. and Ph.D., Indiana University.¹
- SACHOL E. KIM (1968, 1968), *Instructor of Mathematics*. B.S., University of San Francisco; M.S., New Mexico State University.
- SUNG BOK KIM (1968, 1968), *Assistant Professor of History*. A.B., Liberal Arts College, Seoul National University; M.A., University of Wisconsin; Ph.D., Michigan State University.
- ALGIN B. KING (1959, 1956), *Professor of Business Administration*. A.B., University of South Carolina; M.S., New York University; Ph.D., Ohio State University.
- KENNETH S. KNOTT (1967, 1967), *Instructor in English*. A.B., Northwestern University; M.A., Michigan State University.
- MARCIA MARIE KOLLER (1968, 1968), *Lecturer in Music*. B.A., University of Minnesota.
- JOHN VAN ESS KOMAN (1963, 1963), *Lecturer in Music*.

¹On leave of absence, 1968-69.

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ALEXANDER I. KURTZ (1967, 1962), *Associate Professor of Modern Languages*. Licentiate and M.A., Leopold-Francis University, Innsbruck, Austria; M.A., Rutgers University; Th.D., Leopold-Francis University.

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MICHAEL H. KUTNER (1962, 1962), *Assistant Professor of Mathematics*. B.S., Central Connecticut State College; M.S., Virginia Polytechnic Institute.¹

ALBERT C. LABRIOLA (1968, 1968), *Assistant Professor of English*. B.Ed., Duquesne University; M.A.T., Teachers College, Columbia University; M.A. and Ph.D., University of Virginia.

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JAMES D. LAVIN (1968, 1968), *Assistant Professor of Modern Languages*. A.B. and Ph.D., Florida State University.

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SIDNEY H. LAWRENCE (1965, 1961), *Associate Professor of Mathematics*. A.B., M.A. and Ph.D., University of Virginia.

DAWN LAZANUS (1968, 1968), *Assistant Professor of Education*. B.Ph. and M.A., DePaul University; Ed.D., University of Virginia.

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- MICHAEL J. LIEB (1967, 1967), *Assistant Professor of English*. A.B., A.M. and Ph.D., Rutgers University.
- VICTOR A. LIGUORI (1966, 1964), *Assistant Professor of Sociology*. A.B., Haverford College; M.A. and Ph.D., Princeton University.
- MONT LINKENAUER (1963, 1960), *Assistant Professor of Physical Education for Men*. B.S. and M.Ed., College of William and Mary; R.P.T., Medical College of Virginia.
- JAMES C. LIVINGSTON (1968, 1968), *Associate Professor of Religion*. A.B., Kenyon College; B.D., Union Theological Seminary, New York; Ph.D., Columbia University.
- JOHN H. LONG (1968, 1955), *Associate Professor of Physics*. B.S., U. S. Naval Academy; M.S., Harvard University.
- EDRIL LOTT (1963, 1950), *Associate Professor of Secretarial Science*. A.B., Mississippi State College for Women; M.A., Mississippi Southern University.
- GEORGE E. LOTT, JR. (1967, 1967), *Assistant Professor of Theatre and Speech*. A.B., College of William and Mary; M.A., Michigan State University.
- ROBERT MACCUBBIN (1968, 1964), *Assistant Professor of English*. A.B., The Johns Hopkins University; M.A. and Ph.D., University of Illinois.
- FRANK A. MACDONALD (1955, 1955), *Professor of Philosophy*. A.B. and M.A., College of William and Mary; M.A., Harvard University.
- MARTHA B. MACDONALD (1968, 1968), *Instructor in English*. A.B., Erskine College; M.A., University of Maryland.
- ALEXANDER P. MACGREGOR, JR. (1968, 1966), *Assistant Professor of Ancient Languages*. A.B., Xavier University; A.M., University of Chicago.
- WILLIAM G. MACINTYRE (1965, 1965), *Assistant Professor of Marine Science*. B.S., M.S. and Ph.D., Dalhousie University.

JOHN T. MACQUEEN (1966, 1962), *Associate Professor of Chemistry*. B.S., Davidson College; Ph.D., University of North Carolina.

STEPHEN R. MALONEY (1967, 1967), *Instructor in English*. B.S., and M.A., University of Rochester.

CHARLOTTE P. MANGUM (1968, 1964), *Associate Professor of Biology*. A.B., Vassar College; M.S. and Ph.D., Yale University.

CHARLES F. MARSH (1968, 1930, 1968), *Lecturer in the School of Business Administration*. A.B., Lawrence College; M.A. and Ph.D., University of Illinois.

J. LUKE MARTEL (1963, 1963), *Associate Professor of Modern Languages*. A.B., University of Arizona; Licence ès Lettres, Université de Montpellier; Doctorat, Université d'Aix-Marseille.

BEN L. MARTIN (1968, 1968), *Assistant Professor of Government*. A.B., University of Texas; M.A., M.A.L.D. and Ph.D., Tufts University.

KENNETH M. MASON, JR. (1965, 1965), *Instructor in English*. A.B., Washington and Jefferson College; M.A., Cornell University.

MARTIN C. MATHES (1967, 1967), *Associate Professor of Biology*. A.B., Miami University; M.S. and Ph.D., University of Maryland.

MILDRED MATIER (1961, 1961), *Lecturer in Education*. A.B. and M.A., College of William and Mary.

JOHN R. MATTHEWS, JR. (1963, 1961), *Associate Professor of Economics*. B.S. and M.A., University of Virginia.

GILBERT H. MCARTHUR (1966, 1966), *Assistant Professor of History*. A.B., Friends University; Ph.D., University of Rochester.

CARL W. MCCARTHA (1965, 1955), *Professor of Education*. A.B., Newberry College; M.A., University of North Carolina; Ed.D., University of Florida.

BEN CLYDE McCARY (1968, 1930), *Professor of Modern Languages*. A.B., University of Richmond; Docteur de l'Université de Toulouse.

DONALD L. MCCONKEY (1968, 1954), *Associate Professor of Theatre and Speech*. B.S., Illinois State University; M.A., Ohio State University.

- JAMES N. McCORD, JR. (1966, 1965), *Assistant Professor of History*. A.B., Emory University; M.A. and Ph.D., The Johns Hopkins University.
- CECIL M. McCULLEY (1963, 1948), *Professor of English*. A.B. and M.A., Southern Methodist University; Ph.D., Columbia University.
- BRUCE T. McCULLY (1961, 1940), *Professor of History*. A.B., Rutgers University; M.A. and Ph.D., Columbia University.
- DOROTHY H. McGAVRAN (1964, 1964), *Instructor in English*. A.B., Gettysburg College; M.A., Harvard University.
- VIRGIL V. McKENNA (1967, 1962), *Associate Professor of Psychology*. A.B., College of William and Mary; M.A., Swarthmore College; Ph.D., Princeton University.
- BETTY NUNN McKNIGHT (1968, 1961, 1967), *Acting Instructor in Government*. A.B., College of William and Mary; M.A., Indiana University.
- JOHN L. McKNIGHT (1968, 1957), *Professor of Physics*. A.B., University of Michigan; M.S. and Ph.D., Yale University.
- HENRY E. McLANE (1967, 1965), *Associate Professor of Philosophy*. A.B., George Washington University; M.A. and Ph.D., Yale University.
- WILLIAM G. McNAIRY (1967, 1967), *Instructor in Business Administration*. B.S., University of North Carolina; M.B.A., University of Virginia.
- PATRICK H. MICKEN (1966, 1966), *Instructor in Theatre and Speech*. B.S. and M.S., Southern Illinois University.
- LAWRENCE A. MILLER (1968, 1968), *Assistant Professor of Theatre and Speech*. B.F.A., Carnegie Institute of Technology; M.F.A., Carnegie-Mellon University.
- THELMA MILLER (1957, 1954), *Assistant Professor of Home Economics*. A.B., Berea College; M.S., University of Tennessee.
- ESTHER B. MILLS (1968, 1968), *Associate Professor of Education*. B.S., Wayne State University; M.Ed. and Ed.D., University of Maryland.

WARREN E. MITCHELL (1966, 1966), *Instructor in Physical Education for Men*. A.B., University of Richmond.

KATHERINE A. MONTGOMERY (1967, 1967), *Assistant Professor of Ancient Languages*. A.B., Hollins College; M.A., Tufts University.

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WILLIAM WARNER MOSS, JR. (1937, 1937), *John Marshall Professor of Government and Citizenship*. A.B., University of Richmond; M.A. and Ph.D., Columbia University.

JOHN A. MUSICK (1968, 1968), *Instructor in Marine Science*. A.B., Rutgers, The State University; M.A., Harvard University.

FRASER NEIMAN (1958, 1938), *Professor of English*. A.B., Amherst College; A.M. and Ph.D., Harvard University.

FRANCES H. NELSON (1968, 1968), *Lecturer in Education*. A.B., Winthrop College; M.Ed., College of William and Mary.

ROBERT O. NELSON (1965, 1965), *Professor of Education*. A.B., Erskine College; M.A., Peabody College; Ph.D., University of Georgia.

ELSA NETTELS (1967, 1967), *Assistant Professor of English*. A.B., Cornell University; M.A. and Ph.D., University of Wisconsin.

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J. J. NORCROSS (1965, 1959), *Associate Professor of Marine Science*. A.B., William Jewel College; M.S., Michigan State University.

RUSSELL P. NORMAN (1967, 1964), *Associate Professor of Psychology*. A.B., University of Minnesota; M.A. and Ph.D., University of North Carolina.

- BRUCE NYLAND (1968, 1968), *Visiting Assistant Professor of Philosophy*. A.B., Baldwin Wallace College; M.A., Northwestern University.
- LESLIE DOLE O'NEIL (1967, 1967), *Instructor in Modern Languages*. A.B., Kansas State University; M.A., University of Cincinnati.
- PETER V. O'NEIL (1967, 1967), *Assistant Professor of Mathematics*. B.S., Fordham University; M.S. and Ph.D., Rensselaer Polytechnic Institute.
- CURTIS H. O'SHELL (1968, 1968), *Associate Professor of Education*. B.A., Pennsylvania State University; M.A., Allegheny College; Ed.D., Pennsylvania State University.
- PIERRE C. OUSTINOFF (1958, 1953), *Professor of Modern Languages*. A.B., M.A. and Ph.D., Columbia University.
- DEAN P. OWENS (1963, 1963), *Instructor in Marine Science*. A.B., Duke University; M.S., Wagner College; M.S., The Johns Hopkins University.
- STEPHEN P. PALEDES (1968, 1954), *Associate Professor of Music*. Juilliard School of Music; A.B. and M.A., American University.
- MARIA ROBREDO PALMAZ (1968, 1964), *Instructor in Modern Languages*. A.B., National Institute of Modern Languages, Buenos Aires; M.A., University of Cordoba; Diplôme De Culture Française Contemporaine, University of Paris.
- CHRISTOPHER E. PATTERSON (1967, 1967), *Instructor in Physical Education for Men*. B.S., University of Maryland; M.S., Southern Illinois University.
- CHARLES F. PERDRISAT (1966, 1966), *Assistant Professor of Physics*. B.S., University of Geneva; D.Sc., Federal Institute of Technology, Zurich.
- FRANK O. PERKINS (1966, 1966), *Assistant Professor of Marine Science*. A.B., University of Virginia; M.S. and Ph.D., Florida State University.
- CYNTHIA J. PETERS (1968, 1968), *Assistant Professor of Modern Languages*. A.B., Colby College; M.A., Middlebury College.

- ARTHUR WARREN PHELPS (1945, 1945), *Professor of Law*. A.B., Washington and Lee University; M.A., Ohio State University; J. D., University of Cincinnati; LL.M., Columbia University.
- WILLIAM CARTER POLLARD (1966, 1966), *Librarian*. A.B., University of North Carolina; M.A., Florida State University.
- BENJAMIN B. POMEROY (1968, 1968), *Instructor in Physical Education for Men*. A.B., College of William and Mary.
- RICHARD H. PROSL (1966, 1966), *Assistant Professor of Mathematics*. B.S., College of William and Mary; A.B. and M.A., University College, Oxford; M.S. and Ph.D., Rensselaer Polytechnic Institute.
- JOHN S. QUINN (1959, 1949, 1956), *Professor of Business Administration*. B.S., State Teachers College, Salem, Massachusetts; M.C.S., Boston University; M.B.A., Harvard University; C.P.A.
- CHARLES L. QUITTMAYER (1962, 1948, 1962), *Professor of Business Administration*. A.B., College of William and Mary; M.B.A., Harvard University; Ph.D., Columbia University.
- LARRY RABINOWITZ (1968, 1968), *Assistant Professor of Mathematics*. A.B., M.S., and Ph.D., Rutgers University.
- MORRIS RABINOWITZ (1967, 1967), *Instructor in English*. A.B. and M.A., City College, City University of New York.
- JOHN H. RANDOLPH (1967, 1967), *Lecturer in Physical Education for Men*. A.B. and M.Ed., College of William and Mary.
- O. WARREN REDHAIR (1968, 1968), *Lecturer in Music*. B.M.Ed., Youngstown University; M.Ed., College of William and Mary.
- WILLIAM T. REECE (1967, 1960), *Professor of Business Administration*. B.S. and M.B.A., University of North Carolina; C.P.A.
- ELIZABETH S. REED (1968, 1955), *Associate Professor of Philosophy*. A.B., Butler University; M.A., Florida State University; Ph.D., Duke University.
- MARION DALE REEDER (1967, 1943), *Professor of Physical Education for Women*. B.S. and M.S., University of Illinois.
- GEORGE H. REESE (1966, 1966), *Lecturer in History*. A.B., M.A. and Ph.D., University of Virginia.

- THEODORE R. REINHART (1968, 1968), *Assistant Professor of Anthropology*. A.B., Pennsylvania State University; M.A., George Washington University; Ph.D., University of New Mexico.
- EDWARD A. REMILER (1967, 1967), *Assistant Professor of Physics*. B.S., Massachusetts Institute of Technology; M.S., Columbia University; Ph.D., University of North Carolina.
- JAMES HENRY RENZ (1966, 1966), *Associate Librarian*. B.A., Ohio State University; A.M.L.S., University of Michigan.
- THOMAS L. REYNOLDS (1960, 1960), *Professor of Mathematics*. B.S., Guilford College; M.A. and Ph.D., University of North Carolina.
- EDWIN H. RHYNE (1966, 1954), *Professor of Sociology*. B.S., Clemson College; M.A. and Ph.D., University of North Carolina.
- LAURA H. RHYNE (1966, 1965), *Lecturer in Sociology*. A.B. and M.A., University of Georgia.
- VERONICA C. RICHEL (1966, 1965), *Assistant Professor of Modern Languages*. B.S.L., Georgetown University; M.A. and Ph.D., Yale University.
- DONALD L. RICKETTS (1967, 1967), *Lecturer in Business Administration*. A.B., East Carolina College; J.D., College of William and Mary; C.P.A., North Carolina.
- DOROTHY I. RIDDLE (1968, 1968), *Assistant Professor of Psychology*. A.B., University of Colorado; Ph.D., Duke University.
- ROGER R. RIES (1968, 1968), *Assistant Professor of Education*. B.S., M.Ed. and Ph.D., University of Missouri.
- EDWARD MILES RILEY (1963, 1963), *Lecturer in History*. A.B., Washington and Lee University; M.A. and Ph.D., University of Southern California.
- GORDON B. RINGGOLD (1963, 1946), *Professor of Modern Languages*. A.B., Denison University; M.A., Middlebury College; Ph.D., Georgetown University.
- LIONEL RINTEL (1968, 1967), *Associate Professor of Mathematics*. B.S., University of Sofia, Bulgaria; M.S. and D.Sc., Israel Institute of Technology.

- ROBIN L. ROARK (1968, 1968), *Lecturer in Music*. B.M., Oklahoma Baptist University; M.S., University of Southern California.
- SHIRLEY G. ROBY (1964, 1964), *Assistant Professor of Physical Education for Women*. B.S., Longwood College; M.F.A., University of North Carolina, Greensboro.
- JAMES M. ROHERTY (1967, 1963), *Professor of Government*. A.B. and M.A., University of Washington; Ph.D., University of Wisconsin.¹
- CARL A. ROSEBERG (1966, 1947), *Professor of Fine Arts*. B.F.A. and M.F.A., State University of Iowa; Life Fellow, International Institute of Arts and Letters.
- GEORGE T. RUBLEIN (1966, 1966), *Associate Professor of Mathematics*. B.S., St. Mary's University; M.S. and Ph.D., University of Illinois.
- EVON P. RUZECKI (1965, 1965), *Assistant Professor of Marine Science*. A.B., Knox College; M.S., University of Wisconsin.
- ANTHONY L. SANCETTA (1961, 1948), *Professor of Business Administration*. A.B., Western Reserve University; M.S. and Ph.D., Columbia University.
- JAGDISH C. SANWAL (1966, 1966), *Associate Professor of Mathematics*. B.S. and M.S., Lucknow University, India; Ph.D., Indiana University.
- JAMES W. SAWYER (1964, 1960), *Assistant Professor of Theatre and Speech*. A.B., Bates College; M.S., Syracuse University.
- HOWARD M. SCAMMON, JR. (1967, 1948), *Professor of Theatre and Speech*. A.B., College of William and Mary; M.A., Northwestern University.
- MELVYN D. SCHIAVELLI (1968, 1968), *Assistant Professor of Chemistry*. B.S., DePaul University; Ph.D., University of California, Berkeley.
- LEONARD G. SCHIFRIN (1965, 1965), *Associate Professor of Economics*. A.B. and M.A., University of Texas; Ph.D., University of Michigan.
- ROBERT J. SCHOLNICK (1967, 1967), *Assistant Professor of English*. A.B., University of Pennsylvania; M.A. and Ph.D., Brandeis University.

¹On leave of absence, 1968-69.

- HARLAN E. SCHONE (1968, 1965), *Associate Professor of Physics*. B.S., University of Illinois; Ph.D., University of California, Berkeley.
- JOHN E. SELBY (1966, 1963), *Associate Professor of History*. A.B., Harvard College; A.M. and Ph.D., Brown University.
- KELLY G. SHAVER (1968, 1968), *Assistant Professor of Psychology*. B.S. and M.S., University of Washington; Ph.D., Duke University.
- GLENN D. SHEAN (1966, 1966), *Assistant Professor of Psychology*. A.B., Louisiana State University, New Orleans; M.A. and Ph.D., University of Arizona.
- BERNARD W. SHEEHAN (1966, 1966), *Assistant Professor of History*. B.S., Fordham University; M.A., University of Michigan; Ph.D., University of Virginia.
- ARDEN SHER (1967, 1967), *Associate Professor of Physics*. B.S. and Ph.D., Washington University, St. Louis.
- RICHARD B. SHERMAN (1965, 1960), *Associate Professor of History*. A.B., Harvard University; M.A., University of Pennsylvania; Ph.D., Harvard University.
- ROGER SHERMAN (1966, 1946, 1966), *Associate Professor of Theatre and Speech*. A.B., College of William and Mary.
- GLEN L. SHIVEL, JR., LT. COL., INF. (1966, 1966), *Assistant Professor of Military Science*. B.F.S., University of Southern California.
- DAVID L. SIDERS (1967, 1967), *Instructor in Economics*. B.S. and M.B.A., Bowling Green State University.
- ROBERT T. SIEGEL (1963, 1963), *Professor of Physics*. B.S., M.S. and D.Sc., Carnegie Institute of Technology.
- JARID A. SIMONS (1967, 1967), *Assistant Professor of Biology*. A.B., Washington University, St. Louis; Ph.D., Yale University.
- BARBARA A. SIMPSON (1960, 1956, 1967), *Assistant Professor of Economics*. B.S., Bucknell University; M.A., University of Pennsylvania.
- CARL J. SLONE (1967, 1967), *Instructor in Physical Education for Men*. A.B., University of Richmond.
- GRACE M. SMITH (1966, 1966), *Associate Professor of Education*. A.B. and M.Ed., University of Virginia.

- HOWARD M. SMITH, JR. (1965, 1946), *Professor of Physical Education for Men*. B.S., College of William and Mary; M.S., Syracuse University.
- LEROY W. SMITH (1967, 1956), *Professor of English*. A.B., American University; M.A., George Washington University; Ph.D., Duke University.
- ROBERT E. SMITH (1946, 1946), *Associate Professor of Physics*. A.B., Allegheny College; M.A., University of North Carolina.
- ROGER W. SMITH (1967, 1967), *Assistant Professor of Government*. A.B., Harvard College; M.A., University of California, Berkeley.
- JON F. SOEST (1968, 1967), *Assistant Professor of Physics*. A.B., Pomona College; M.S. and Ph.D., University of Washington.
- RAYMOND W. SOUTHWORTH (1966, 1966), *Professor of Mathematics*. B.S., Worcester Polytechnic Institute; M.Eng. and D.Eng., Yale University.
- BERNICE M. SPEESE (1952, 1946), *Assistant Professor of Biology*. B.S. and M.A., College of William and Mary; Ph.D., University of Virginia.
- DONALD H. SQUIRE (1968, 1966), *Assistant Professor of Modern Languages*. A.B., University of Nebraska.
- DAVID P. STANFORD (1967, 1967), *Assistant Professor of Mathematics*. A.B., Hartwick College; M.A. and Ph.D., University of North Carolina.
- MARVIN M. STANLEY (1968, 1968), *Assistant Professor of Business Administration*. B.S., George Washington University; M.B.A., Harvard University.
- E. BLYTHE STASON, JR. (1967, 1963), *Associate Professor of Law*. A.B., M.A. and J.D., University of Michigan; LL.M., Harvard University.
- ALAN C. STEWART (1968, 1944), *Professor of Music*. A.B., Union College; M.A., Columbia University.
- HOWARD STONE (1963, 1948), *Professor of Modern Languages*. A.B., Pomona College; M.A., Claremont Graduate School and University Center; Ph.D., University of California, Berkeley.

GEORGE V. STRONG (1967, 1967), *Assistant Professor of History*. A.B. and M.A., University of North Carolina.

THOMAS A. SWARDELL, MAJOR (1968, 1968), *Assistant Professor of Military Science*. B.S., Indiana University of Pennsylvania.

WILLIAM F. SWINDLER (1958, 1958), *Professor of Law*. A.B. and B.S., Washington University, St. Louis; M.A. and Ph.D., University of Missouri; LL.B., University of Nebraska.

JOHN W. SYKES (1963, 1963), *Assistant Professor of Education*. B.S., New York State College; M.Ed., University of Virginia.

LAVONNE O. TARLETON (1961, 1959), *Instructor in Chemistry*. B.Ch.E., Cornell University; M.A., College of William and Mary.

THADDEUS W. TATE, JR. (1964, 1961), *Associate Professor of History*. A.B. and M.A., University of North Carolina; Ph.D., Brown University.

C. RICHARD TERMAN (1965, 1963), *Associate Professor of Biology*. A.B., Albion College; M.S. and Ph.D., Michigan State University.

ELAINE M. THEMIO (1966, 1966), *Assistant Professor of Sociology*. A.B., Mount Holyoke College; M.A., University of North Carolina; Ph.D., American University.

DAVID W. THOMPSON (1967, 1967), *Assistant Professor of Chemistry*. B.S., Wheaton College; Ph.D., Northwestern University.

THOMAS E. THORNE (1965, 1940), *Professor of Fine Arts*. B.F.A., Yale University.

JANET TOMLINSON (1965, 1965), *Instructor in Physical Education for Women*. A.B., Beloit College; M.A., University of Iowa.

CHARLES E. TORCIA (1967, 1967), *Professor of Law*. LL.B., St. John's University; LL.M., New York University.

CHARLES J. TORIAN, JR. (1967, 1967), *Lecturer in Music*. B.S., Frederick College.

LELAND E. TRAYWICK (1967, 1967), *Professor of Business Administration*. A.B. and M.A., University of Missouri; Ph.D., University of Illinois.

F. DONALD TRUESDELL (1963, 1960), *Professor of Music*. B.M. and M.M., University of Michigan; A.M.D., University of Rochester.

- GERALD DALE TURBOW (1965, 1965), *Assistant Professor of History*. A.B. and M.A., University of California, Los Angeles; M.A., Harvard University; Ph.D., University of California, Los Angeles.
- WILLIAM C. TURNER (1960, 1960), *Assistant Professor of Mathematics*. B.S., Furman University; M.A., Duke University.
- ANNE S. TYLER (1967, 1962), *Assistant Professor of Modern Languages*. A.B., Randolph-Macon Woman's College; M.A., Columbia University.¹
- SHEPPARD YOUNG TYREE, JR. (1966, 1966), *Professor of Chemistry*. B.S. and Ph.D., Massachusetts Institute of Technology.
- PAUL UNGER (1968, 1968), *Professor of Education*. A.B., Western Michigan University; M.A. and Ph.D., University of Michigan.
- WILLARD A. VAN ENGEL (1961, 1946), *Professor of Marine Science*. Ph.B. and Ph.M., University of Wisconsin.
- MARION G. VANFOSSEN (1967, 1967), *Associate Professor of Sociology*. A.B., Blackburn College; M.A., Pennsylvania State University; Ph.D., Emory University.
- WEBSTER VAN WINKLE, JR. (1967, 1967), *Assistant Professor of Biology*. A.B., Oberlin College; Ph.D., Rutgers University.
- CHARLES R. VARNER (1968, 1953), *Professor of Music*. B.M.E. and M.M., Northwestern University.
- CARL W. VERMEULEN (1966, 1966), *Assistant Professor of Biology*. A.B., Hope College; M.S. and Ph.D., University of Illinois.
- HANS C. VON BAEYER (1968, 1968), *Assistant Professor of Physics*. A.B., Columbia College; M.Sc., University of Miami; Ph.D., Vanderbilt University.
- J. LEWIS WALKER, III (1967, 1967), *Instructor in English*. A.B., University of Virginia; M.A., University of California, Berkeley.
- CAROL A. WALLACE (1963, 1963), *Assistant Professor of Physical Education for Women*. A.B., Hollins College; M.A., Sarah Lawrence College.
- HUMPHREY YEE-CHANG WANG (1968, 1968), *Assistant Professor of Marine Science*. B.S., National Taiwan University; Ph.D., Johns Hopkins University.

¹On leave of absence, 1968-69.

- ALAN JOSEPH WARD (1967, 1967), *Assistant Professor of Government*. B.Sc., University of London; M.A., University of Connecticut; Ph.D., University of London.
- STEWART A. WARE (1967, 1967), *Assistant Professor of Biology*. B.S., Millsaps College; Ph.D., Vanderbilt University.
- JUNIUS ERNEST WARINNER, III (1963, 1963), *Instructor in Marine Science*. B.S. and M.A., College of William and Mary.
- MARVIN L. WASS (1960, 1960), *Associate Professor of Marine Science*. B.S., Winona State College; M.S., Florida State University; Ph.D., University of Florida.
- KENNETH L. WEBB (1965, 1965), *Assistant Professor of Marine Science*. A.B., Antioch College; M.S. and Ph.D., Ohio State University.
- GIDEON WEISZ (1968, 1968), *Assistant Professor of Physics*. B.S., M.S. and Ph.D., University of Chicago.
- ROBERT E. WELSH (1968, 1963), *Professor of Physics*. B.S., Georgetown University; Ph.D., The Pennsylvania State University.
- MILDRED BARRETT WEST (1968, 1959), *Associate Professor of Physical Education for Women*. B.S., Georgia State College for Women; M.A., University of Maryland.
- LEWIS G. WETHERELL, COL. INF. (1967, 1967), *Professor of Military Science*. B.S., University of Southern California.
- JAMES P. WHYTE, JR. (1958, 1958), *Professor of Law*. A.B., Bucknell University; M.A., Syracuse University; J.D., University of Colorado.
- ALMA L. WILKIN (1957, 1928), *Associate Professor of Home Economics*. B.S., Kansas State University; M.A., Teachers College, Columbia University.
- DONALD L. WILLIAMS (1967, 1967), *Instructor in English*. A.B., Duke University; M.A., Wayne State University.
- STANLEY B. WILLIAMS (1948, 1948), *Professor of Psychology*. A.B. and M.A., University of California, Los Angeles; Ph.D., Yale University.
- JOHN H. WILLIS, JR. (1967, 1959), *Associate Professor of English*. A.B., University of Virginia; M.A. and Ph.D., Columbia University.
- ROLF G. WINTER (1964, 1964), *Professor of Physics*. B.S., M.S. and D.Sc., Carnegie Institute of Technology.

- CHARLES X. WITTEN (1965, 1963), *Assistant Professor of Physical Education for Men*. B.S. and M.A., University of Maryland.¹
- FRANK J. WOJCIK (1965, 1965), *Instructor in Marine Science*. B.S., University of Massachusetts; M.S., University of Alaska.
- J. L. WOOD (1961, 1959), *Professor of Marine Science*. B.S., Massachusetts State College; M.S., University of Massachusetts; Ph.D., Columbia University.
- LANGLEY H. WOOD (1965, 1961), *Associate Professor of Marine Science*. B.S., Richmond Professional Institute; M.A., Columbia University; Ph.D., Columbia University.
- CHARLES M. WUKASCH (1967, 1967), *Instructor in Modern Languages*. A.B. and M.A., University of Texas.
- YING-YEUNG YAM (1967, 1967), *Assistant Professor of Physics*. B.S., Trinity College, Connecticut; M.A., University of California, Berkeley; Ph.D., University of Pennsylvania.
- JOSEPH R. ZEPKIN (1968, 1968), *Lecturer in Law*. A.B. and B.C.L., College of William and Mary.
- WALTER S. ZIMMERMAN (1966, 1966), *Associate Professor of Modern Languages*. B.S. and Ph.D., New York University.
- DAVID E. ZWERNER (1968, 1968), *Instructor in Marine Science*. B.S., George Washington University; M.A., College of William and Mary.

Earl Gregg Swem Library Staff

- WILLIAM CARTER POLLARD (1966, 1966), *Librarian*. B.A., University of North Carolina; M.A., Florida State University.
- JAMES HENRY RENZ (1966, 1960, 1964), *Associate Librarian*. B.A., Ohio State University; A.M.L.S., University of Michigan.
- NOLAN THOMAS YELICH (1968, 1968), *Head, Public Services*. B.S., Wisconsin State University, Oshkosh; M.S., University of Wisconsin.
- ANNA BOOTHE JOHNSON (1960, 1959), *Law Librarian*. B.S., Longwood College.

¹On leave of absence, 1968-69.

- HERBERT LAWRENCE GANTER (1950, 1940, 1948), *College Archivist*. A.B. and B.C.L., College of William and Mary.
- HELEN PILKINGTON BRYHN (1949, 1947), *Documents Librarian*. A.B., College of William and Mary.
- AILENE ANNE ZIRKLE (1964, 1963), *Acquisitions Librarian*. A.B., Madison College; M.L.S., George Peabody College for Teachers.
- SARAH VIRGINIA GRAY (1964, 1964), *Periodicals Librarian*. A.B., Duke University; M.S. in L.S., University of North Carolina.
- SUZANNE LOUISE FOLEY (1967, 1965), *Reference Librarian*. A.B., College of William and Mary; M.L.S., Rutgers University.
- MARIE CAROL ELLIS (1966, 1966), *Assistant Reference Librarian*. B.A. and M.A., Florida State University.
- MARGARET CELESTE COOK (1966, 1966), *Curator of Manuscripts*. B.A., Sweet Briar College; M.A., College of William and Mary.
- ILSE BLOCH WEBB (1968, 1966), *Cataloging Librarian*. A.B., Antioch College; M.S.L.S., Columbia University.
- HENRY DALE GRUNDER (1967, 1967), *Curator of the Virginia Collection and of Rare Books*. B.A. and M.A., Miami University; A.M., University of Chicago.
- MARY LOUISE BROWN COBB (1967, 1967), *Assistant Cataloging Librarian*. B.A., Wake Forest College; M.L.S., George Peabody College for Teachers.
- MARY LYNWOOD THAXTON (1967, 1967), *Assistant Reference Librarian*. B.A., Emory and Henry College; M.Ln., Emory University.
- BURTON LEO CESARE (1968, 1968), *Circulation Librarian*. B.A., Hobart College; M.A. and M.L.S., State University of New York at Albany.
- KATHRYN JOAN BLUE (1968, 1968) *Assistant Cataloging Librarian*. B.A., Cornell College; M.A., University of Wisconsin.
- REBECCA MCKILLIPS (1968, 1968), *Assistant Circulation Librarian*. B.A., Northwestern State College; M.S., Louisiana State University.
- BERNA LEVINE HEYMAN (1968, 1968), *Assistant Law Librarian*. A.B., Washington University; M.S., Simmons College.



*President Paschall presents a 275th anniversary medallion to
President and Mrs. Nixon*

Health Service Staff

ROBERT E. DEBORD, M.D.

Director of Student Health Service

JOSEPH D. BROWN III, M.D.

College Physician

SUE M. HARTSFIELD, R.N.

Head Nurse

MRS. CHARLES CHANDLER, R.N.

Nurse

MRS. G. V. BRACEY, R.N.

Nurse

MRS. GORDON GRAY, R.N.

Nurse

MRS. WILLIAM DAYTON, R.N.

Nurse

MRS. J. A. EDMUNDS, R.N.

Nurse

General College Committees

Admissions: GARRETT (Chairman), BEYER, BICK, CLEM, GOODWIN, A. KING, TARLETON, THORNE, WELSH, HUNT (ex officio).

Arts and Lectures: PALEDES, FOSTER (co-chairmen), W. F. DAVIS, DOLMETSCH, HAAK, SWINDLER, SYKES, TATE, THORNE, GREEN (ex officio).

Athletics—(Men): JOHNSTON (Chairman), BARNES, CATO, DERKS, D. GRAY, ROSEBERG, SANCETTA, H. SMITH, SYKES, TILLOTSON, WHYTE, HOOKER (ex officio).

Computer Center Advisory Committee: FUNSTEN (Chairman), DERKS, E. FISCHER, GALFO, GARRETT, ITO, JENSEN, NORCROSS, QUINN, TYREE, VAN WINKLE, WHITAKER, SOUTHWORTH (ex officio).

Discipline: LAMBERT (Chairman), BARNES, CURTIS, B. DONALDSON, McNAIRY, PROSL, GRACE SMITH, TATE.

Faculty Research: EVANS (Chairman), BLACK, R. M. BROWN, BULLOCK, HARCUM, LEADBEATER, J. MCKNIGHT, R. NEWMAN, PHELPS, E. RHYNE, TRAYWICK.

Prizes and Special Awards: NEIMAN (General Chairman).

Botetourt Medal: B. DONALDSON, KALLOS, LAMBERT, McDONALD.

Carr Cup: ARMSTRONG, BARNES, EVANS (also two additional members, one each to be named by Senior and Junior classes).

Sullivan Awards: BROOKS, ELLIOTT (Asst. Dean of Men), FISCHER, MOSELEY, C. McCULLEY, QUITTMAYER, SCAMMON.

Scheduling Committee: WILLIS (Chairman), LAMBERT (Secretary and Keeper of the College Calendar), ENGLISH, HERRMANN, KELLY, SCAMMON, SWINDLER, THORNE.

Scholarships and Student Employment: HEEMANN (Chairman), BRIGHT (Secretary), CHESSER, CURRY, KERNODLE, REYNOLDS, STANLEY, HUNT (ex officio).

Special Events: Convocation Marshals: EVANS (Chief Marshal), ARMSTRONG, BALDWIN, BALL, DERKS, HEARN, HOFFMAN, KERNODLE, PHELPS, SELBY.

Fall Convocation: BALL (Chairman).

Charter Day Convocation: JOHN E. DONALDSON, JOHN H. WILLIS, JR. (Co-Chairmen).

Spring Honors Convocation: LAMBERT (Chairman).

Homecoming, Burgesses' Day & Parents' Day: KELLY (Executive Secretary of the Alumni), SADLER (Asst. Dean of Admissions).

Commencement: LAMBERT (Chairman).

Student Recreation: BARNES (Chairman), B. DONALDSON, GREEN, ED. JONES, MOSELEY, VARNER, WEST, ENGLISH (ex officio).

Committees of the Faculty of Arts and Sciences

Academic Status: LAMBERT (Chairman), BARNES, CATO, DAVIDSON, B. DONALDSON, FOSTER, JENSEN, G. JOHNSON, R. JOHNSTON, R. NEWMAN, VANFOSSEN.

Athletics (Women): REEDER (Chairman), ARCHER, CROWE, SIMPSON, WEST.

**Curriculum Committee:* EDWARDS (Chairman), G. BROOKS, L. CATRON, A. FREEMAN, HEARN, G. JOHNSON, WARD JONES, MCKENNA, SCHIFRIN.

†*Degrees:* FOWLER (Chairman), BEELER, W. F. DAVIS, FRIEDMAN, R. B. SHERMAN.

†*Faculty Affairs:* FOWLER (Chairman), BANNER, S. DONALDSON, L. JOHNSON, E. RHYNE, TERMAN, S. WILLIAMS.

Foreign Exchange & National Scholarships: BEYER (General Chairman).

Committee A: C. McCULLEY (Chairman), BEYER, FOWLER, W. M. JONES, LAMBERT, PROSL, SIMPSON, WILLIS.

Committee B: DOLMETSCH, EVANS, MOORE.

*Elected by the Faculty.

†Elected by the Faculty, except the Chairman, who is the Dean of Faculty of Arts and Sciences.

Foreign Students & Study Abroad: MARTEL (Chairman), DIDUK, DOLMETSCH, WARD JONES, MACDONALD, WILLIS.

Graduate Studies: SELBY (Acting Chairman), BYRD, EVANS, HAMILTON, HARGIS, KERNODLE, MOORE, SANWAL, TYREE, S. WILLIAMS, WINTER, FOWLER (ex officio).

Honors: FOWLER (Chairman), CALLARD, HAMILTON, KIEFER, KERNODLE, MACDONALD, L. SMITH, BEYER (ex officio).

**Honorary Degrees:* BEYER, DOLMETSCH, MOSS.

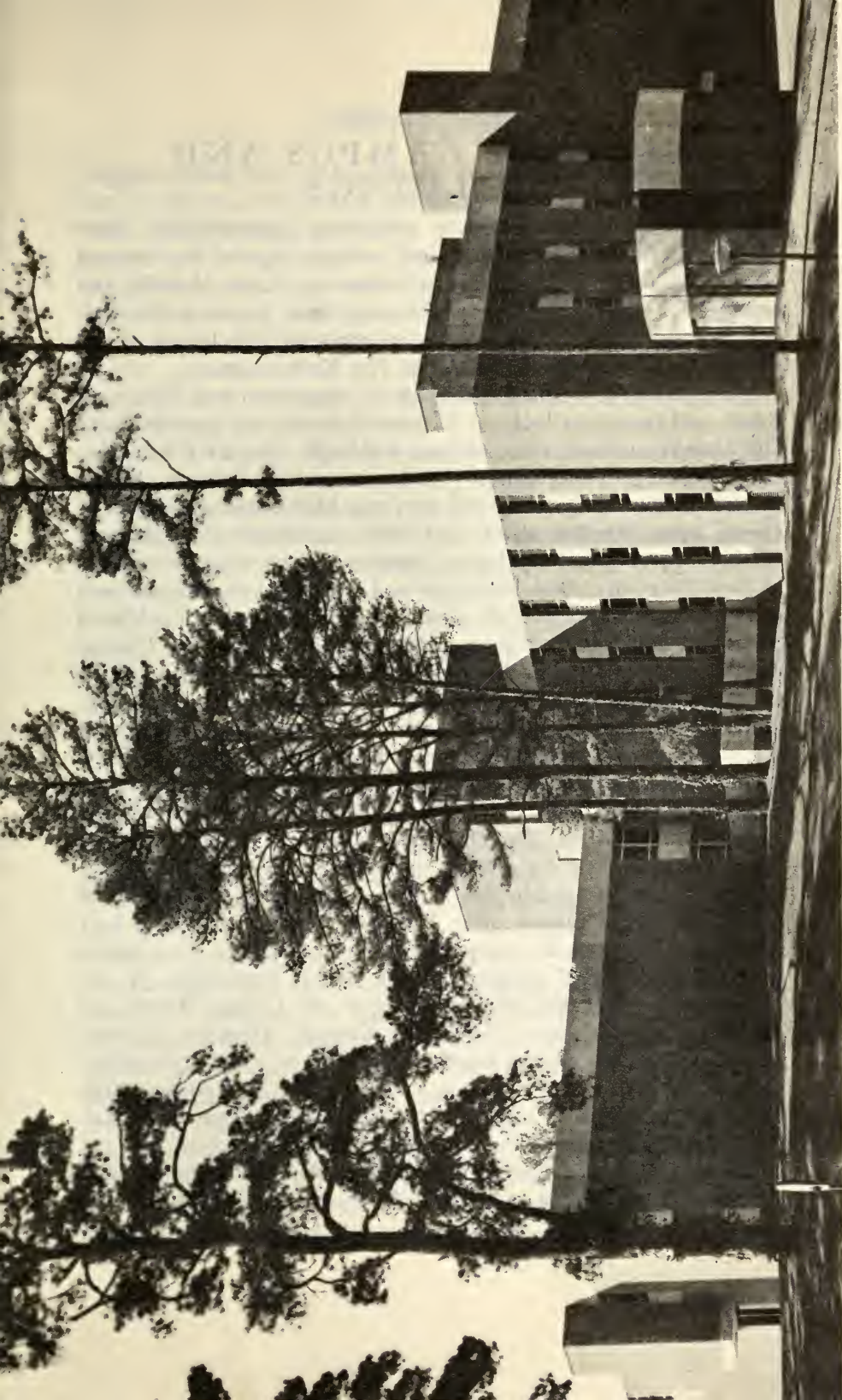
Library: SCHIFRIN (Chairman), CURRY, N. ELLIOTT, WARD JONES, MANGUM, McCORD, McKENNA, MOORE, POLLARD (ex officio).

**Nominating:* MACDONALD (Chairman), BALL, BICK, CURRY, HARCUM, ITO.

Psychological Counseling Center Advisory Council: JOHNSTON (Chairman), ALTSHULER, J. D. BROWN, LAMBERT, L. SMITH, TARLETON, S. WILLIAMS, NORMAN (ex officio).

Committees of Schools

The individual schools of the College have various committees either elected by the faculty of the school or appointed by the Dean. These committees include: Curriculum Committee, Advisory Committee, Graduate Studies Committee, Library Committee, Scholarship Committee, Special Events Committee, Admissions Committee, and Degrees Committee.



The Millington Hall of Life Sciences

COLLEGE CAMPUS AND BUILDINGS

THE COLLEGE CAMPUS, comprising approximately 1,200 acres of land, extends from the western edge of the restored area of Colonial Williamsburg to picturesque Lake Matoaka and an extensive stretch of beautifully wooded land known as the College Woods. Within its boundaries are three sections known as the *Old Campus*, *The Main Campus*, and *The New Campus*.

In the front of a triangle formed by Jamestown and Richmond Roads, and facing the Duke of Gloucester Street, lies the elm-shaded *Old Campus* with its three original buildings. *The Sir Christopher Wren Building* (1695 restored 1928-31) has persisted despite damage by fires in 1705, 1859, and 1862. Its Great Hall contains portraits of Queen Anne (Kneller school) and other seventeenth and eighteenth century figures. The Chapel crypt contains, among others, the graves of Lord Botetourt, three Randolphs and Bishop James Madison. Still in daily classroom use, it is the oldest academic building in the United States and designated a National Historic Landmark by the Department of the Interior. *The Brafferton* (1723 restored 1932) was erected and maintained as an Indian School until the Revolution by income derived from Brafferton Manor, Yorkshire, England, purchased by the executors of Robert Boyle, the noted English Physicist, to carry out his bequest to promote Christianizing the Indians. Today it serves as a College guest house and as offices for the Vice President of the College and associates. *The President's House* (1732 restored 1931) has served as a home for each of the twenty-three presidents of the College. It was damaged by fire in 1781, while occupied as a hospital by French Army officers after Yorktown. King Louis XVI later contributed to its repair. These three pre-revolutionary masterpieces were restored through the generosity of John D. Rockefeller, Jr.

Behind the Wren Building, extending to the College Woods and flanking the Old Campus is the *Main Campus*. Through its center runs a wide sunken garden, lined on two sides by a boxwood hedge. On the north side of the sunken garden is the Old Library (1908, 1923, 1929), originally constructed with Carnegie Foundation aid. The Old Library now houses the Marshall-Wythe School of Law, its library and related academic and public affairs activities. West of the Old Library is *Rogers Hall* (1927), named for William Barton

Rogers, student (1819-21), professor of natural philosophy and chemistry (1828-35), and founder and first president of Massachusetts Institute of Technology (1861-70). It contains classrooms and laboratories for chemistry and other studies. West of Rogers Hall is *James Blair Hall*. It is used for both administrative offices and classrooms.

On the east end, south side, of the sunken garden is *Ewell Hall* (1926 rebuilt 1958). Originally built by Phi Beta Kappa, it burned in 1953, and when rebuilt was named in honor of Benjamin Stoddert Ewell, fifteenth President of the College. It now houses the offices of the College President and Dean of Admissions as well as providing space for classrooms. West of Ewell Hall is *Washington Hall* (1928), named for the first President of the United States who also served as Chancellor of the College (1788-99), which is devoted to general classroom use. Farther west of the sunken garden, on the edge of the College Woods, are eleven lodges presently being used for classrooms and faculty offices.

On the northern edge of the Main Campus, north of Richmond Road, is *Brown Hall* (1926), a dormitory housing 87 women. It is named for the home of Dudley Digges, Revolutionary patriot whose home stood on its site. Close by are nine college-owned residences occupied by sororities. In a westerly direction, south of Richmond Road, is *Blow Gymnasium* (1924 enlarged 1941), given by Mrs. George Preston Blow and family in memory of George Preston Blow, Captain, USN. His father, George Blow II, attended the college (1829-31), as did his grandfather, Col. William Blow (1804). It is used for men's physical education and R.O.T.C. To the southeast of Blow Gymnasium is *Monroe Hall* (1924), a men's dormitory housing 154, named for the fifth President of the United States and student at William and Mary (1774-76). Southwest of Blow Gymnasium is *Old Dominion Hall* (1927), a men's residence housing 160, named in honor of Virginians who played a prominent part in the making of the country. *Bryan Hall* (1953), north of Old Dominion, a men's dormitory, and was named for John Stewart Bryan, twentieth President of William and Mary (1934-42) and Chancellor of the College (1942-44). Adjacent to Bryan, and forming a complex of dormitories are *Dawson* (1953), named for the second and fourth College presidents, William (1743-52) and Thomas (1755-60); *Stith* (1953), named for the third President of the College, William Stith (1752-55); *Camm* (1959), named for the seventh College President, John Camm

(1771-77); and *Madison* (1959), named for the eighth College President, James Madison (1777-1812). The total capacity of this dormitory complex is 296 men. West of Bryan complex is *Cary Field Park* (1935), consisting of a 10,000 seat stadium surrounded by men's athletic fields and parking areas. It was named for T. Archibald Cary, member of the College's Board of Visitors (1901-06), who gave funds for the first athletic field (1910) where Old Dominion and Bryan Halls now stand.

On the southern side of the Campus, south of Jamestown Road, is *Tyler Hall* (1916 renovated 1951), a men's residence housing 73, named for John Tyler, alumnus of the College (1806), and tenth President of the United States (1841-45). South of Tyler Hall is the *King Infirmary* (1930), named for Dr. David J. King, College physician (1919-34). This building is also used as a men's dormitory, housing 32. The *Campus Center* (1960) is directly west of Tyler Hall and is the meeting place on Campus. It provides offices for student activities and publications and contains recreation rooms, a theater, and meeting and dining rooms in addition to "The Wigwam" which features a grill for light dining. West of the Campus Center is *Trinkle Hall* (1926), the main dining hall named in honor of E. Lee Trinkle, Governor of Virginia (1922-26), who was instrumental in restoring this building promptly after a fire had destroyed an earlier dining hall on the same site. South of Trinkle Hall are located the *College Laundry and Power Plant*. Directly west is *Taliaferro Hall* (1935), named for William Booth Taliaferro, alumnus of the College (1842), who was active in the reopening of the College in 1888 and a member of its Board of Visitors (1870-98). This is a men's dormitory accommodating 66.

Farther west, on the north side of Jamestown Road, are four residence halls for women. *Jefferson Hall* (1920), named for Thomas Jefferson, student at the College (1760-62), reorganizer of the College curriculum (1779), member of the Board of Visitors (1779), and third President of the United States (1801-09), houses 162. West of Jefferson, and housing 164, is *Barrett Hall* (1927), named for Kate Waller Barrett, M.D., prominent Virginia civic leader, advocate of higher education for women and member of the Board of Visitors (1921-25). *Chandler Hall* (1931), housing 144, is west of Barrett and is named for Julian Alvin Carroll Chandler, alumnus (1891), and President of the College (1919-34). *Landrum Hall* (1958) is still

farther west. It is named for Grace Warren Landrum, Dean of Women and Professor of English (1927-47), and houses 217.

On the extreme southwest edge of the Main Campus is the newly developing Campus. Here, facing Jamestown Road, is *Phi Beta Kappa Memorial Hall* (1957) which contains an 805-seat theater, dressing rooms, scene building shops, classrooms, offices, a conference center and television and radio broadcasting facilities. A Fine Arts Wing, *Robert Andrews Hall*, to house the Fine Arts Department has recently been added to Phi Beta Kappa. Adjacent to Phi Beta Kappa are women's playing fields. North of Phi Beta Kappa is the *Earl Gregg Swem Library* named for the College Librarian (1920-1945). Here are housed over a half a million books and documents, the Lord Botetourt Art Gallery, the William and Mary Museum, the Institute of Early American History and Culture and an auditorium and seminar rooms. Northeast of the Library is the recently completed *Millington Hall of Life Sciences* named for John Millington, Professor of Natural Philosophy (1836-1848) housing the Departments of Biology and Psychology. Northwest of Phi Beta Kappa is the *William Small Physical Laboratory* (1964) named for William Small, Professor of Natural Philosophy (1758-64). Here are to be found modern and elaborate classrooms, laboratories and equipment for teaching and research in physics. Farther to the northwest is *Adair Gymnasium* for women (1963), named for Cornelia Storrs Adair, student (1921-23), and distinguished Virginia educational leader. Beyond Adair Gymnasium in the same direction is *Jessie Ball duPont Hall* (1964) bearing the name of a gracious benefactor of the College and accommodating 272 women. Directly north of the Swem Library is *Yates Hall* (1962), a men's residence hall, housing 249, named for the Rev. William Yates, fifth President of the College (1761-64). Across the campus road, to the west of Yates dormitory, is the *Commons*, a new *Dining Hall*. Far to the west of Phi Beta Kappa and on the shores of Lake Matoaka is the *Lake Matoaka Drama Amphitheatre* (1947), scene for annual outdoor summer historical dramas.

North of Yates Dormitory and The Commons is located the New Men's Dormitory, *Fraternity Circle*. This dormitory consists of twelve units, each occupied by a fraternity.

The Library

The main Library as of July 1st, 1968, contained 393,416 catalogued volumes.¹ The books are classified according to the Dewey Decimal System and the Library of Congress classification with variation in special classes. Additional resources of the Library include government documents, books and pamphlets in special collections, and several thousand volumes in microform. The number of periodicals and newspapers regularly received is 2,500.

With the exception of rare books and materials in the special collections, the volumes in the Library are on open shelves and easily accessible to all students and members of the faculty. Students are privileged to go freely into the stacks and reading areas to select the books they need and to browse at leisure.

The library named in honor of the late Dr. Earl Gregg Swem (Librarian, 1920-1945; Librarian Emeritus, 1945-1965), was opened to the public early in 1966. The Earl Gregg Swem Library, one of the finest college libraries in the United States today, contains a variety of educational facilities designed to assist the most inexperienced freshman or the most distinguished national scholar. The Reference Department on the main floor contains the card catalogue, periodical indexes, and other reference sources. The upper two floors consist of a coordinated book stack—reading area designed to accommodate the study and research needs of all users of the building. Special attention has been given to proper lighting and acoustical treatment of all areas.

The figurehead of the Special Collections Division of the Earl Gregg Swem Library is the original statue of Norborne Berkeley, Baron de Botetourt, Colonial Governor of Virginia, 1768-1770, and rector of the College Board of Visitors. One of the oldest surviving examples of colonial statuary in America, the Botetourt statue was originally acquired by the College in 1801 and until 1958 stood in the college yard in front of the historic Sir Christopher Wren Building.

The Earl Gregg Swem Library is open to the public Monday

¹The Library holdings of the College also include more than 600,000 manuscripts, prints, maps, musical records, and newspapers dated before 1900. The total Library holdings number more than 1,200,000 pieces.

through Friday: 8:00 a.m. to 11:00 p.m.; Saturday: 8:00 a.m. to 5:00 p.m.; Sunday: 2:00 p.m. to 11:00 p.m.

A student is privileged to borrow as many books at one time as he requires. The privilege of borrowing books is also extended to adult residents of Williamsburg and the adjoining counties, to military personnel stationed on the peninsula, to the members of the staff of Colonial National Historical Park at Jamestown and Yorktown, and to the staff of Colonial Williamsburg, Incorporated. Photocopy facilities are available at a modest cost to all users of the Library.

The Reserve Book Collection is located on the first floor of the Earl Gregg Swem Library. This department contains about 3,000 volumes which are changed each semester as the courses require. There are other departmental libraries in special rooms which are open at special hours: the Chemistry Library in Rogers Hall, the Physics Library in the William Small Physical Laboratory, and the Geology Library in Bryan Hall.

The Special Collections Division on the ground floor of the Earl Gregg Swem Library—including the Botetourt Art Gallery, Museum, College Archives, Rare Book Room, Virginia Room, Tucker-Coleman Room, and Manuscripts Department—provides full security and convenient access to the rare books, historical papers, and early Virginia records preserved within these departments. The College of William and Mary archives and collections of historic manuscripts touch Virginia life of three centuries. Worthy of special mention are representative letters of such distinguished Virginians as George Washington, John Marshall, St. George Tucker, Thomas Jefferson, James Monroe, John Tyler, James Madison, George Mason, William B. Taliaferro, and Joseph B. Johnston. As part of the collection, there are over 2,000 ledgers, journals, letterbooks, diaries, account books, and notebooks. Of prime importance is the collection of letters, documents, and accounts of officials of the College of William and Mary, notable additions to which are made periodically. Among the special collections in the Rare Book Department are those touching many aspects of early American history, the James Branch Cabell collection, the Hetty Cary Harrison collection on eighteenth century gardening and horticulture, the Peter Chapin collection of books on dogs and hunting, the Ralph Green collection of books, notes, and printing equipment relating to the development of the art of printing in the United States, the collection of classical writings presented

by the late Dr. Earl Gregg Swem, and the papers of U.S. Senator A. Willis Robertson.

The Tucker-Coleman Room houses one of the few colonial libraries left intact in this country. The collection contains 400 books with St. George Tucker's signature and 800 volumes belonging to his sons and descendants. The manuscript portion of the collection consists of over 30,000 pieces relating to St. George Tucker and his contemporaries.

A check-out system has been instituted at the main entrance of the library to make certain that materials taken from the building are properly charged.

The Library is fortunate in receiving each year many gifts of books from friends, alumni, members of the faculty, and students. Friends of the Library have supported the publication of a number of historical and bibliographical works which are distributed to scholars and learned societies throughout the academic world.

The Computer Center

The facilities of the Computer Center are available for use in undergraduate and graduate instruction and research. In addition to several regularly scheduled courses in programming and numerical analysis, self-instruction courses are available. Also, short, non-credit courses are given in such programming languages as Fortran, Cobol, and PL/I. A staff of experienced programmers is on hand to assist faculty and graduate students.

The computer is temporarily located in the William Small Physical Laboratory, until completion of the Mathematics-General Classroom Building. Several terminals have been installed at other locations on- and off-campus, and by means of telephone connections, programs can be transmitted to the computer from these locations. The results of the computations can then be transmitted back to the terminals. At present, off-campus terminals are located at Christopher Newport College, the Virginia Associated Research Center, and the Virginia Institute of Marine Science.

The Computer Center is equipped with an IBM System/360 Model 50 computer, together with peripheral equipment for punching, listing, and sorting cards. Main storage of the computer is 131,072 characters; secondary storage is available on magnetic tapes and disks.



An honors colloquium in session

STUDENT LIFE

THERE ARE SEVERAL broad areas of student life and activities outside the formal academic program which, together with that program, comprise the whole educational experience of a student at the College of William and Mary. These general areas are the cultural, the social, the spiritual, and the athletic, ranging in specific activities from student government, publications, theatre, and musical groups, to participation in intercollegiate and intramural athletics. The College recognizes and encourages these many activities as valuable elements in the student's life. As a result, the student is able to participate in an unusually varied number of activities as his time, talents, and interests dispose him. He has the possibility for a rich and meaningful life to be coupled with that of the demanding, yet exciting, experiences of classroom and laboratory.

Since William and Mary is chiefly a resident college, students and faculty compose a closely knit community in which extracurricular and social activities play a considerable role in the cultural and intellectual development of the individual. An informal relationship between teacher and student is encouraged, both in and out of the classroom, thereby fostering the process of living and learning together. The College is concerned to keep classes small, and to ensure the possibilities of both a friendly, informal faculty-student association, and a rewarding, non-academic life whereby the individual's needs, interests, and identity are honored in a democratic way. The College believes that one of the major purposes is to inculcate by means of the several phases of college life the ideals of self-responsibility and good campus citizenship.

The new student at William and Mary is introduced to the College life and atmosphere during the orientation period which takes place immediately before the beginning of classes in September. During this period, the Honor System is explained to the entering student, and he is made familiar with the College facilities, and the complete range of extracurricular activities. He is also introduced to student leaders, and to key members of the administrative staff who will assist him through their experience and human understanding. Perhaps most important of all, the entering student will meet in personal consultation his faculty adviser who will work closely with him before

registration and occasionally during the school year to assist him to engage successfully in an academic program suitable to him.

The new student thus becomes an integral part of William and Mary, making new friends among members of his own and other college classes, among the faculty, and administrative officers.

Community life is important at William and Mary, since the majority of students live in residence halls. The twelve fraternities and the nine sororities provide housing for part of their membership. While these organizations make prominent contributions to the life of the College, an adequate social life is available to non-members in many functions and activities sponsored at the College. The use of leisure is provided for in the Residence Halls by recreation rooms, study rooms, and lounges, which are appropriately furnished. As the meeting place of students on the campus, the Campus Center offers an educational and recreational program of events for the College family as well as opportunities for student participation in the presentation of that program. The facilities of the Center include lounges for informal gatherings, a television room, music listening rooms with high fidelity equipment, a reading room, and a cafeteria and refreshment bar, called "The Wigwam." Billiards, table-tennis, and shuffleboard comprise the games activity. In addition, there are meeting rooms to house various interest groups and clubs, as well as a ballroom for dancing. The officers of the various student publications and Student Government are located in the Center. A film series, a lecture series, art and craft exhibits, and concerts are presented as a part of the regular Center program.

Informal College dances take place occasionally on Saturday nights throughout the session, and formal dances are held at intervals. In addition, dances and other social functions are held by fraternities, sororities, dormitories and other organizations.

Student Government

The constitution of the Student Association of the College of William and Mary provides for an Executive Cabinet and Assembly whose powers extend to all student activities common to both men and women. A separate organization, the Women's Dormitory Association, deals with the dormitory activities and regulations which concern the women solely. Similarly, each men's residence hall elects a Dormitory Council from among its students.

The Board of Student Affairs

The Board of Student Affairs was established by action of the Board of Visitors for the 1968-69 academic session. It has replaced and assumed the functions of the previously existing student Activities Fee Committee, the General Cooperative Committee, and the Publications Committee. In addition, the Board will serve as a forum for the exchange of views and the formulation of recommendations for policy changes on matters pertinent to the College and student life in particular.

The Board is composed of members of the student body, the faculty, and the administration as follows: the Presidents of the Student Association, the Student Bar Association, the Women's Dormitory Association, and the Honor Councils, the Senior Class, the Junior Class, the Sophomore Class, and the Freshman Class; the Editors of *The Flat Hat*, and *The Colonial Lawyer*; representatives of the School of Law, the School of Education, the School of Business Administration, and three representatives from the Faculty of Arts and Sciences; administration representatives from the offices of the Dean of Men, and the Dean of Women; the Bursar, and the Director of the Campus Center. The chairman of the Board is the Dean of Students.

Phi Beta Kappa Society

Alpha of Virginia: The Phi Beta Kappa Society, the oldest Greek-letter fraternity in the United States, was founded by a small group of students at the College of William and Mary on December 5, 1776. During the succeeding four years, the number of members increased to a total of fifty, including Captain John Marshall, who subsequently became Chief Justice of the United States, and Elisha Parmele, a graduate of Harvard University. The faith of these youthful scholars in the permanence and future greatness of their society was shown by their preparation of charters for branches in other colleges. Two such charters were entrusted to Elisha Parmele, who brought about the establishment of chapters at Yale in 1780 and at Harvard in 1781.

The original society at the College became inactive in 1781, with the closing of the College because of the approach of the army of Cornwallis. It was revived in 1851 with the blessings of an aged founder, William Short, and continued until early in the War Between the States. In 1893 the Alpha of Virginia Chapter was revived once



again, and it has continued since that time as an active and significant element in the educational program of the College.

At present there are approximately 170 chapters of Phi Beta Kappa located at the leading educational institutions of the United States, with a membership in excess of 120,000. Members of the local chapter number more than 1,000 persons; in addition, a number of faculty members who were elected to Phi Beta Kappa at other institutions serve actively as affiliated members of Alpha of Virginia. Senior students up to 10 per cent of the total number in the class are elected each year, largely on the basis of scholarship, as members in course. From the alumni of the College of at least ten years' standing who have attained distinction in their professions, Alumni members are elected from time to time. Less frequently, honorary members and faculty members who are not graduates of the College are elected to membership.

Honor Societies and Special Interest Groups

Omicron Delta Kappa is an honorary society whose membership is elected annually from the junior and senior men on the basis of eminence in the fields of scholarship; athletics; social and religious activities; publications; forensic, dramatic, musical, and other cultural activities.

Mortar Board is a woman's honorary society whose members are elected in their junior year on the three-fold basis of service, scholarship, and leadership. It endeavors to serve the College each year by fostering scholarship, by rendering its services whenever requested, and by encouraging a wholesome college atmosphere.

Two national honor societies, *Phi Eta Sigma* for men and *Alpha Lambda Delta* for women, annually select for membership those freshmen who have attained academic distinction.

There are eight honorary societies devoted to furthering interest in special fields of learning. Members of these groups are elected on the basis of scholastic proficiency in the departments concerned. In addition, many students find opportunities for friendly and stimulating associations in the various special interest groups and departmental clubs devoted to such fields of endeavor as literature, philosophy, drama, debating and the several fields of science.

Fraternities

Since the first Greek letter fraternity was founded at William and Mary in 1776, the College has had an unparalleled heritage as a background for its fraternity life. The passage of time, with its accompanying changes in customs, and the opening of the College to women students, has changed and expanded the fraternity sphere of influence. Today the fraternity provides not only a source of good fellowship, but also fills many other needs in the college community.

The fraternities at William and Mary have implied standards of social deportment which are instilled into each fraternity man, and which help to prepare him for his post-college relations with others in his community. Fraternity intramural athletics allow a much wider participation in competitive sports than can be permitted by varsity competition. A definite criterion of scholarship is established which all men must meet before they are allowed to join any fraternity. Each semester the President of the College awards a cup to the fraternity which has achieved the highest scholastic standing for the preceding semester.

Self-government within the fraternity system is encouraged through the efforts of an Interfraternity Council. There are chapters of twelve social fraternities on the campus: Theta Delta Chi, Sigma Alpha Epsilon, Pi Kappa Alpha, Kappa Alpha, Kappa Sigma, Phi Kappa Tau, Lambda Chi Alpha, Pi Lambda Phi, Sigma Pi, Sigma Nu, Sigma Phi Epsilon and Sigma Chi. An Alumni Interfraternity Council, composed of graduate representatives of the several fraternities, acts in an advisory capacity. This organization makes an annual award to the outstanding fraternity based upon the criteria of scholarship, leadership, varsity athletics, intramurals and community relations.

Sororities

There are nine chapters of national sororities at the College. In 1921 Chi Omega was founded followed by Kappa Alpha Theta, Kappa Kappa Gamma, Pi Beta Phi, Alpha Chi Omega, Phi Mu, Kappa Delta, Delta Delta Delta, and Gamma Phi Beta. The affairs of the sororities are administered and regulated by a chapter of The National Pan Hellenic Council.

Each sorority carries out its respective national principles in the general realms of social congeniality, moral and mental standards, de-

velopment of leadership, cooperation and service, and in stimulating interest in vocations as an outlet for creative abilities. Each sorority has local as well as national philanthropies to which it contributes. Each semester the President of the College awards a cup to the sorority which has achieved the highest scholastic standing for the preceding semester.

The sorority houses, owned by the College, each accommodate between 15 and 20 women, usually juniors and seniors, under the College status of a "small residence hall."

Publications

The *Flat Hat* is a weekly paper published and edited by the students. It is a chronicle of student life and daily affairs of the College.

The *William and Mary Review*, published at least twice a year by a body of student editors, is the College literary publication. It contains short stories, essays, poems, and reviews. Contributions are welcome from all members of the student body.

The *Colonial Echo* is published annually by a staff comprised entirely of students. This well-illustrated volume is a treasury of current campus life.

The financial administration of all student publications is supervised by the Board of Student Affairs. The selection of the major editorial and managerial positions of the publications is also under the jurisdiction of the Board of Student Affairs.

The William and Mary Theatre

Now in its forty-third year, the William and Mary Theatre is a significant contribution to students as members of the audience or as the participants. The staff is composed of five professionally trained members of the faculty of Theatre and Speech. Participation in all forms of dramatic work is provided to students through courses in the Department of Theatre and Speech and through extra-curricular activity. Tryouts for parts in plays are open to all students, and casting is based on a competitive process with the intent to assemble the best qualified people for public performances. The production crews are basically composed of members of the classes in stagecraft, lighting, and design and costume, but emphasis is also placed on the oppor-



*The final moment of the William and Mary Theatre's production of
THE FANTASTICKS*

tunity for all students to volunteer to serve on committees of set construction, painting, sewing, making of properties, publicity, ushering, and box office management. Every production is a learning process for everyone participating.

Annually four full-length plays are presented in public performances. The plays are carefully chosen to provide a variety of entertainment, dramatic experience, and cultural value. Among the plays recently produced are: *Centaur*, *Centaur!*, *The Importance of Being Earnest*, *How to Succeed in Business Without Really Trying*, *As You Like It*, *Rhinoceros*, *The Disappearing Sphere*, *Kiss Me Kate*, *Electra*, *The Fantasticks*, *the Devil's Disciple*, *The Investigation*, and *Hamlet*.

Production methods and styles vary from the proscenium and picture-frame stage to open staging and theatres-in-the-round.

A chapter of a national honorary fraternity is made up of members elected from students who become eligible through successful work in the College theatre.

The William and Mary Debaters

The Intercollegiate Debate Council is an organization training students for participation in college debate tournaments. Any student interested in debate or other forensic activities may join the Council.

Under the guidance of the faculty Director of Forensics and the Department of Theatre and Speech, an extensive program of training and tournament participation is carried on. Each year debaters from the College enter about twenty intercollegiate debate tournaments. Debaters in recent years have traveled to tournaments at Dartmouth College, Florida State University, New York University, Duke University, Wake Forest College, Miami University, University of Georgia, University of South Carolina, Tufts University, Brooklyn College, Georgetown University, and many other eastern colleges. The College of William and Mary is affiliated with Delta Sigma Rho-Tau Kappa Alpha national honorary forensic fraternity. Outstanding college debaters may qualify for membership in this organization.

The Council sponsors the William and Mary Public Debate Series which provides the opportunity for members of the student body to express views on local and national issues. In this series visiting debate teams also meet College debaters in appearances before local high school assemblies. An extensive program of appearances before civic organizations, religious groups, and on radio and television outlets in

Richmond and Norfolk is also carried on. Foreign debate teams from Oxford University, Cambridge University, and other English universities are brought to the campus each year for public debates. William and Mary students have been invited on several occasions to participate in demonstration programs before bodies of the Speech Association of America meeting in convention. The College hosts a high school debate tournament annually, and each year members of the Intercollegiate Debate Council are invited to serve as guest judges for Virginia High School League debate tournaments.

The Marshall-Wythe Debate Tournament is sponsored by the College each February. This event brings to the campus teams from thirty colleges and universities from all parts of the United States. The tournament has become known as one of the outstanding meets in the nation, offering both a unique setting and high quality debating.

The program is coordinated with the curricular offerings of the Department of Theatre and Speech, making use of the available means for teaching effective, intelligent, and responsible speech.

Lectures, Concerts, and Exhibitions

The cultural life at William and Mary is rich and varied. Under the auspices of the Committee on Arts and Lectures, the College seeks to provide its students opportunities for enjoying a wide range of public lectures, concerts, and films.

As a charter member of The University Center in Virginia, Inc., the College participates in a cooperative Visiting Scholars Program which annually brings to the campus for public lectures, readings and seminars, a great many distinguished scholars in all fields of learning, renowned authors and artists, and leading figures in public life. Additional public lectures are sponsored by the Committee in cooperation with various departments of the College and the Student Committee on Concerts and Lectures.

The William and Mary Concert Series annually offers to students, faculty, and area residents, on a voluntary subscription basis, four or five performances by outstanding artists of the professional concert stage. During the 1968-1969 season, for example, the College enjoyed performances by Abraham Kaplan and The Camerata Singers; The Orchestre De Paris; James Oliver Buswell IV, Violinist; Julian Bream, Guitarist and Lutenist; and The Eastman Quartet.

Under the sponsorship of the Fine Arts Department, traveling and

purchasing exhibits in painting, sculpture, architectural design, theatre and industrial arts are shown throughout each year in Phi Beta Kappa Memorial Hall. The final exhibition annually is devoted to the work of students in the Fine Arts classes. Twice each year the Virginia Museum of Fine Arts presents a showing of original art on the campus by means of an artmobile.

Musical Activities

The College offers many musical opportunities to the student for pleasure, participation, and cultural enrichment. The student may choose to attend a wide variety of performances of unusual interest selected from the William and Mary Concert Series, faculty and student recitals, and the Collegium Musicum Series. Participation in the College Choir, Chorus, Band, Orchestra, and small vocal and instrumental ensembles is possible for interested and qualified students. The Campus Center and College Library provide facilities for record listening. Faculty and students of the Music Department participate in the William and Mary Theatre presentations of musical productions. Each year the men's and women's music fraternities, Phi Mu Alpha Sinfonia and Delta Omicron form an opera company and mount a production of a Gilbert and Sullivan operetta. The company, Sinfonicron, presented "Yeoman of the Guard" in 1968-69.

The Collegium Musicum Series, sponsored by the Department of Music and open to the College, and community without charge, presents programs of special interest. Included during the 1968-69 season were Carl Dolmetsch, *Recorders* and *Treble Viol* and Joseph Saxby, *Harpsichord*; The Baroque Ensemble of the Schola Cantorum Basiliensis with guest *Harpsichordist*, Robert Conant; Ronald Marshall, *Viola d'Amore* and Gloria Whitehurst Phillips, *Piano*; William Montgomery, *Flute* and Roy Hamlin Johnson, *Piano*; Herman Reutter, *Composer-Pianist* with Oscar McCullough, *Baritone*; and Takako Nishizaki, *Violin* and Elizabeth Wright, *Piano*.

The William and Mary Choir, a select and mixed group, sings choral literature carefully chosen from among the best available sources. Formal concerts on campus, in the community, and on tour are part of the annual Choir agenda. The William and Mary Chorus, which is a group of women students of the College, provides music for various events on the campus and also appears in formal concerts.

The College Band serves as a dual organization during the academic

year. For the football season, the Band performs as a marching unit, and is highlighted in pre-game and half-time shows, pep rallies, and parades, appearing at both home and away games. After the football season, the Band functions as a concert organization, presenting formal and informal concerts on campus and on tour.

The William and Mary Chamber Music Players is an organization devoted to the study and performance of the best in chamber music. The organization consists of a Chamber Orchestra, and smaller ensembles made up from the more advanced players of the orchestra. In addition to the annual spring concert the Chamber Music Players are active in many special performances in the community.

Private instruction is available for interested and qualified students in piano, organ, voice, strings, and winds. The Music Department sponsors student recitals each year in which advanced students are afforded the opportunity and experience of public performance.

Television and Radio

The College operates a campus-limited, closed-circuit television facility and a non-commercial, FM radio station which reaches much of Eastern Virginia through the Colonial Educational Network. Radio and television have a two-fold purpose at William and Mary: the presentation of formal instruction and general information through these media, and curricular instruction of students in the practical application of broadcast principles.

All students are eligible for participation in the activities of the radio station, WCWM. Students serve on the station as producers, directors, announcers, writers and engineers. Opportunities are available in the television studios as boom operators, cameramen, and projectionists.

Religious Life

The College of William and Mary, though a Church of England foundation, has been since 1799 entirely nonsectarian. It avails itself fully of the cordial spirit of pastoral concern which marks the various churches in the small and friendly city of Williamsburg. Many of the students participate in young people's organizations, among which are Balfour-Hillel, the Baptist Student Union, the Canterbury Association, the Channing Forum, the Christian Science Organization, the Lutheran

Student Association, the Newman Club, the Wesley Foundation, and the Westminster Fellowship. Representatives of these organizations form the Student Religious Union, which assists in the College chapel services, and sponsors Religion-in-Life events throughout the year.

Men's Athletics

In the George Preston Blow Gymnasium, the men's gymnasium, are two basketball courts, a swimming pool, three handball courts, volleyball courts, showers, lockers, athletic administrative offices, a trophy room, and a social room. Cary Field provides for the following facilities: tennis courts, baseball field, stadium for football, track, and field athletics (seating capacity 15,000), practice fields for varsity and freshmen football, and space for softball and intramural games.

The intramural sports program which is under the direct auspices of the Men's Department of Physical Education is designed to meet the needs and desires of all students as far as it is financially and educationally possible. The program evolves from the expressed desires of the students. The intramural director and other staff members of the Physical Education Department act primarily in organizational and advisory capacities.

Provision is made for participation in the following individual and team activities: badminton, basketball, bowling, free throws, golf, handball, horseshoes, softball, swimming, tennis, touch football, track and field, volleyball, and wrestling. League schedules and individual tournaments are arranged for dormitory, fraternity, and independent competition.

The general supervision of intercollegiate athletics for men has been delegated by the President to a faculty committee. The College is a member of the Southern Conference. H. Lester Hooker, Jr., is the Director of Men's Athletics, and Edmund T. Derringer is the Business Manager.

Varsity intercollegiate teams, under the supervision of a competent staff of coaches who are appointed for the full academic year, are offered the following sports; baseball, basketball, cross country, football, golf, gymnastics, soccer, indoor track, swimming, tennis, wrestling and track and field. Freshmen are eligible for varsity competition in all sports except football and basketball.

In addition to the above sports, the College offers National Rifle Association-affiliated Varsity and freshmen rifle teams. All required

equipment, including arms and ammunition as provided by the ROTC Department. Participants are eligible for varsity letters.

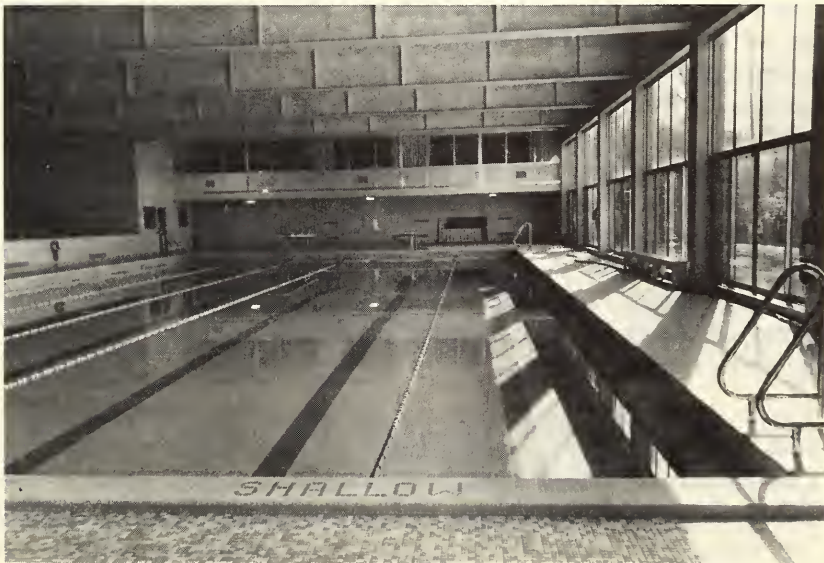
Women's Athletics

Sports are conducted and supervised by a joint committee of faculty and students. The program of physical education activities for women provides opportunity for intramural competition, interest groups, and limited participation in games with other colleges. Awards for accomplishment are the intramural emblem, varsity monogram, and individual honor awards.

Provision is made for intramural participation in the following activities: badminton, basketball, bowling, softball, swimming, tennis and volleyball. Schedules are arranged for dormitory, sorority, and individual competition in groups or teams according to the ability of the participant. Tryouts are held each year for membership in the Synchronized Swimming Club and Orchesis, the dance club.

The Cornelia Storrs Adair Gymnasium provides facilities for fencing, badminton, volleyball, and basketball. The swimming pool and dance studio are located in this building.

The women's athletic fields provide ample space for outdoor activities including archery, hockey, lacrosse, softball and tennis.



SUPERVISION OF STUDENTS AND COLLEGE REGULATIONS

SUPERVISION OF STUDENTS

THE DEANS ENDEAVOR to follow carefully the progress and behavior of every student in College and by personal interest and advice to insure proper conduct and attention to duties. The social activities of the women students, both within and without the College, are under the direction of the Dean of Women.

Reports showing the standing of students in their classes are sent to parents or guardians at the middle and the end of each semester. Students who in any semester accomplish a normal program of studies with a quality point average of 2.20 and no grade below "C" will be placed on the Dean's List of Distinction for the following semester.

For academic guidance at registration each student is assigned a faculty adviser.

STUDENT'S PROGRAM

All students, other than freshmen, graduate and part-time students are required to carry the normal program of at least fifteen and no more than seventeen semester hours (counting courses in Physical Education), with the exception that any student may, with the consent of his adviser, carry eighteen semester hours (counting courses in required Physical Education). Freshmen may carry a minimum of fourteen semester hours counting courses in required Physical Education).

Further deviations from the normal program, when warranted by special circumstances, will be permitted by the Committee on Academic Status after the registration period; students desiring this permission should apply in writing to the Dean of Men or the Dean of Women. Only to exceptionally able students, however, will the Committee on Academic Status grant permission to carry more than eighteen semester hours.

CLASSIFICATION OF STUDENTS

A sophomore student must have completed at least twenty-four (24) credits in academic subjects, with at least twenty-four (24) quality

points. A junior student must have completed at least fifty-four (54) credits in academic subjects, with at least fifty-four (54) quality points. A senior student expecting to graduate in June must have completed eighty-five (85) credits in academic subjects, with at least eighty-five (85) quality points. The social standing of every student is identical with the academic.

CHANGES IN REGISTRATION

In order to add a course to or drop a course from the program of courses for which they originally registered, men students must make application for such a change to the Dean of Men, and women students, to the Dean of Women. If the application is granted, the dean will then notify the Registrar of the change. The Registrar, in turn, records the change on the student's registration card and informs the instructor or instructors concerned. *Unless a course change has been made in that manner it has no official standing and will not be recognized as valid by the College.* After the first week of classes in a semester, the only course changes which are permitted by the deans are those initiated by the faculty and approved by the Dean of the Faculty of Arts and Sciences.

WITHDRAWAL FROM COLLEGE

Students who desire to withdraw from College should apply to the Dean of Men or the Dean of Women for permission to withdraw. The permanent record card of any student who withdraws from College without permission from the proper dean will carry the notation "Withdrew unofficially."

When students withdraw after the date on which midsemester grades are reported and before the completion of the semester, their records bear a notation indicating for each course whether the student was passing or failing. The symbols used for this purpose are WP (withdrew, passing) and WF (withdrew, failing).

It is the policy of the College to allow appropriate credit to students who are required by the Selective Service System or other military organization to withdraw from college during the course of a semester to enter military service. The regulations defining this policy are available on request.

CONTINUANCE IN COLLEGE

A student must accomplish in each semester of attendance a minimum of eight semester credits in academic subjects and earn at least five quality points.

A student in his freshman year must acquire at least 20 semester credits and earn 16 quality points. In his sophomore year a student must earn 24 semester credits and 24 quality points. Moreover, a student who has completed two years may not continue in College unless he has accumulated 48 semester credits with 48 quality points including satisfactory completion of 12 distribution courses.* He must also have declared his field of concentration. A student who has met these requirements except for certain distribution courses may be permitted to attend the summer session of this College in order to complete the distribution requirements, but this permission does not extend to satisfaction of the credit and quality point requirement.

In his third and fourth years of attendance a student must accomplish a minimum of 27 semester credits with 27 quality points in each year.

CLASS ATTENDANCE

An educational system centered upon classroom instruction is obviously predicated on the concept of regular class attendance. In support of this concept, the following principles are to be observed:

1. Except for reasonable cause, students are expected to be present at all regularly scheduled class meetings, particularly their last scheduled class in each of their courses preceding and their first scheduled class in each of their courses following the Thanksgiving, Christmas, and Spring holidays.

2. Students whose attendance becomes unsatisfactory to the extent that their course performance is affected adversely should be so informed by their instructor and the same reported to the Dean of Men or Dean of Women.

EXAMINATIONS

The examinations, given at the end of each semester, take place at the times announced on the examination schedule, which is coordi-

*The requirements of 12 distribution courses will not be applied to students who are successfully pursuing one of the College's pre-professional programs.

nated by the Dean of the Faculty of Arts and Sciences and posted at least two weeks before the beginning of the examination period. Students are required to take all of their examinations at the time scheduled, unless excused on account of illness or other sufficient reason by the Dean of Men or the Dean of Women. Students should present their reasons for an expected absence to the proper dean in advance of the examination. No excuse on the ground of illness will be accepted unless it is approved by the College physician.

Deferred examinations are provided for students who have been excused by the Dean of Men or the Dean of Women from taking their examinations at the regular time. The deferred examinations for courses in the first semester are given in the fourth week of the second semester; the deferred examinations for courses in the second semester are given during the orientation period in September. Except under very exceptional circumstances students are not permitted to postpone the taking of a deferred examination beyond the first occasion thus regularly provided; and in no case will permission to take a deferred examination be extended beyond a year from the time of the original examination from which the student was absent. The schedule of the deferred examinations, coordinated by the Dean of the Faculty of Arts and Sciences will be posted several days in advance of the time at which they are given, and a copy of it will be mailed to each student who is entitled to take a deferred examination.

The College does not authorize re-examinations.

RESIDENCE

All undergraduate students except those coming daily from their homes, are required to live in the College residence halls. Exceptions to this regulation may be granted by the Dean of Students when good reason for so doing exists. Married students may not reside in College residence halls.

All resident students who are classified as freshmen or sophomores are required to board in the College dining hall. For all other students, boarding in the College dining hall is optional.

Because of the excessively heavy demand for admission by many students who do not live within commuting distance of a college, there is an increasing obligation on the part of the College of William and Mary, as a residential institution, to accommodate as many such students as possible. In order to do so, it becomes necessary for the

College to reserve its dormitory housing for those students coming from areas outside the immediate Williamsburg vicinity. Those students, therefore, who have a Williamsburg *mailing* address will not be permitted to reside in College housing until they have achieved junior standing, and then only if vacancies in dormitories occur whereby their accommodation would be permitted.

CONDUCT

General Statement

The College believes in providing opportunities for self-growth in both the academic and personal life of students. By minimizing the number of narrowly defined regulations the College attempts to promote and encourage individual responsibility and self-discipline. A fundamental requirement for such an orderly, desirable society is that students conduct themselves lawfully and as ladies and gentlemen in every facet of campus and community life.

The College considers as particularly serious those acts which infringe upon the rights of others or which violate the laws of the Commonwealth of Virginia. It should be pointed out that damage of State property, hazing, drunkenness or the consumption of alcoholic beverages in public areas on campus or unlicensed public areas off campus violates such laws and acceptable standards of student conduct.

The discipline of the College is vested in the President by the action of the Board of Visitors. Serious infractions are considered by the Discipline Committee, which represents administration, faculty, and students. Cases involving minor infractions of discipline are handled through the offices of the Dean of Men and the Dean of Women, respectively. When men and women are jointly involved in misconduct or violation of College regulations, they will be similarly charged and held equally responsible. The College reserves the right at any time to suspend or dismiss a student whose conduct or academic standing is in its judgment unsatisfactory.

When students, other than day students, are dropped from the roll or are required to withdraw for reasons other than academic, or are suspended for disciplinary reasons, they must forthwith leave the College and the vicinity. Until this requirement has been fulfilled, they remain subject to the authority of this institution and may be

expelled. Such students may not visit the College or attend a College activity without first obtaining permission from the appropriate dean, i.e., the Dean of Men or the Dean of Women.

Marriage

1. Students Under Twenty-One

Any minor student who marries without the full knowledge and consent of his or her parents will be required to withdraw. Such consent must be obtained in writing by the parents at least a week prior to the marriage.

2. Students Over Twenty-One

A student twenty-one years of age or over must give written notice in advance of his or her intention to marry. Failure to do so may result in dismissal from the College.

Manners and Habits of Living

Manners and behavior that would not be tolerated in the student's home cannot be tolerated in the classroom, the dining halls, or the residence halls. The College highly approves of regular habits of living, and these include hours of rising and retiring that are compatible with regular classroom appointments and regular study habits. Long experience has shown a striking correlation between irregular and slovenly habits of living and lack of adequate performance in the classroom.

Students are expected to keep their rooms reasonably neat and tidy at all times. It is also expected that a student's dress and conduct in the dining hall be consistent with that of his home life.

Participation in Extracurricular Activities and Eligibility for Class Office

Students are required to pass twenty-four semester credits during the previous year before they may represent the College in athletic contests, intercollegiate debate, dramatic productions, or other similar extracurricular activities.

No student shall be eligible to hold a class office unless he is a member in good standing of the class which he seeks to represent.

Public Performances and Parties

No person or group of persons associated with the College of William and Mary shall give either in Williamsburg or elsewhere as a representative of the College a public performance of any kind unless prior to the first rehearsal the said person or group of persons shall have obtained from the office of the President permission to present the entertainment. In order to secure permission, those in charge of the performance must make written application to the President of the College.

AUTOMOBILE REGULATION

By regulation of the Board of Visitors, students are not allowed to have automobiles, except by special permission, which is to be secured from the President through the Dean of Men. When a student has secured special permission to have or operate an automobile, it is expected that the use of the automobile will be limited to the purposes for which the permission is granted.

A detailed statement of the Regulation is available at the Office of the Dean of Men.

STUDENT PERSONNEL SERVICES

HEALTH SERVICE

THE PURPOSE of the Health Service is fourfold: (1) improvement of the health of the students; (2) prevention of diseases; (3) supervision of campus sanitation, which includes inspection of sanitary conditions of cafeterias, dining halls, dormitories, and swimming pools; and (4) instruction of students in matters essential to healthful living.

The Health Service is housed in the David King Infirmary, a modern, fireproof building containing out-patient clinic, dispensary and waiting room, diet kitchen, and eighteen-bed infirmary.

A health certificate is required of all entering students. During each semester, each student is entitled to the use of the Medical Services. The medical services are as follows:

1. Medical care in the Health Service clinic for minor and incipient illness and accidents. Necessary staple drugs and dressings are included.
2. Health consultation service with the medical staff.
3. Special medical examinations for certification of students which is required for participation in intercollegiate athletics and other forms of strenuous activity.
4. Hospitalization in the Health Service infirmary for a limited period, for minor and incipient illness when bed care is advised by the College physician. The College does not, however, assume the cost of special nurses, consulting physicians, surgical operations, X-rays or laboratory tests, care in other hospitals, or special medications. Meals are charged the student at the prevailing dining hall rate.

The College Health Service provides the services listed above, but it lacks facilities for prolonged hospitalization, post-operative care and special diets. Students who require these facilities will be permitted to withdraw from the College for medical reasons without prejudice to their academic records.

BUREAU OF SENIOR AND ALUMNI PLACEMENT

The College maintains a Placement Bureau for seniors and alumni through which nonteaching placements are made. This faculty-sponsored organization helps seniors to obtain employment with business and industrial organizations. At the same time it assists business and industry in obtaining a trained body of men and women. The Placement Office also offers its services to the alumni who are seeking job transfers after they have been out of college a number of years. Frequent requests come from industrial and business concerns for men who are available for employment and who have had experience.

Personal records of seniors and alumni are made available to professional, governmental and business organizations interested in employing men and women from the College. The Placement Bureau maintains cordial relationships with many employers and devotes considerable effort each year to placing in permanent positions those students who seek employment. Company representatives are invited to the campus to confer with students and to discuss not only the qualifications necessary for success in their special fields but to explain business opportunities and to make job offers to graduates. In recent times representatives of nationally recognized business concerns have been visiting the campus at the rate of about one hundred per year. These representatives are given every assistance in their recruiting programs. Free services of the Bureau include vocational counsel and personal aid in securing satisfactory positions.

THE PSYCHOLOGICAL COUNSELING CENTER

The Psychological Counseling Center, located in the basement of Rogers Hall, offers professional assistance to students in two major areas: 1) vocational and educational counseling, involving the selection of a major course of study or the planning of a career, and 2) personal counseling, which generally involves problems of social relationships and the understanding of oneself and others. These services are free of charge, and are provided by experienced clinical psychologists who are also members of the faculty. All relationships between clients and counselors are confidential, and at no time do the results of counseling become part of a student's permanent college record.

No information concerning an individual's contact with the Counseling Center will be released without his written permission.

The Counseling Center administers vocational and psychological tests, but only when in the judgment of the counselor, such instruments can make a meaningful contribution to the understanding or resolution of a student's concerns. In addition to testing that is part of the counseling process, the Center serves as a regional testing center for certain nationally administered examinations. Among these are the Graduate Record Examinations, the Law School Admission Test, the Medical College Admission Test, and the Miller Analogies Test. Application forms and additional information concerning these examinations can be obtained in the Counseling Center office.

In addition to counseling and testing activities, staff members of the Counseling Center are available for consultation with faculty, administration, dormitory personnel, and students, either individually or in groups. Appointments for individual counseling or for consultation can be made in person or by telephone.



The Campus Center

THE SOCIETY OF THE ALUMNI

THE SOCIETY of the Alumni of the College of William and Mary in Virginia was founded in 1842 and incorporated on March 17, 1923. Its purpose is to organize the alumni of the College of William and Mary in one general body, in order to keep alive the memories of college life and promote the welfare of the College. Any alumnus who has completed one regular college semester at the College in Williamsburg and has received honorable dismissal is eligible for membership in the Society. Contributors to The William and Mary Fund are accorded all membership privileges. *The Alumni Gazette*, the official publication of the Society, is sent to all living alumni.

The officers of the Society are: Dixon Littlebury Foster, '44, President; Howard Hopkins Hyle, '48, Vice President; Betty Lee Hicks (Wagner), '51, Secretary-Treasurer; James Sands Kelly, '51, Executive Secretary; Gordon C. Vliet, '54, is Director of Alumni Affairs.

The members of the Board of Directors of the Society are: To December 1969—Dixon Littlebury Foster, '44, Irvington, Virginia; Mary Permelia Pauly (Chinnis), '46, Alexandria, Virginia; Betty Lee Hicks (Wagner), '51, Richmond, Virginia; Howard Hopkins Hyle, '48, Atlanta, Georgia; Hugh Smith Haynie, '50, Louisville, Kentucky.

To December 1970—Garrett Dalton, '25, Radford, Virginia; Guy Wilson Daugherty, '34, Rochester, Minnesota; Chester F. Giermak, '50, Erie, Pennsylvania; Paul Kormick Lapolla, '41, New York, New York; Allen Clarence Tanner, '46, Newport News, Virginia.

To December 1971—Robert A. Duncan, '24, Williamsburg, Virginia; Donald G. Griffin, '42, Norfolk, Virginia; Jane Harden (Hanson), '42, Potomac, Maryland; John Evans Hocutt, '35, Newark, Delaware; William Edward Pullen, '22, Flint Hill, Virginia.

The members of the Alumni Board of Trustees of the Alumni Endowment of the College of William and Mary are: Jay Wilfred Lambert, '27, Williamsburg, Virginia; Robert A. Duncan, '24, Williamsburg, Virginia; Robert Stanley Hornsby, '41, Williamsburg, Virginia; Edward Nelson Islin, '25, Newport News, Virginia; ex-officio—the President of the Society of the Alumni.

The Alumni Office is located in Ewell Hall.

FEES AND EXPENSES

THE COLLEGE RESERVES THE RIGHT TO MAKE, WITH THE APPROVAL OF THE PROPER AUTHORITIES, CHANGES IN TUITION AND OTHER FEES AT ANY TIME.

Payment of Accounts

Principal fees, and room and board fees, and laundry are payable in advance by the semester, remittance being made by check drawn to the College of William and Mary.

Students will not be allowed to complete registration unless their registration cards have first been approved by the Treasurer-Auditor's Office. This preliminary procedure can be accomplished by mail and should be completed upon receipt of student's statement of account.

First semester accounts are due on or before September 5, or within 10 days after receipt of bill, if same is received after August 27. Second semester accounts are due on or before January 15.

Refunds to Students Withdrawing

Subject to the following regulations and exceptions, all charges made by the College for room, board and fees are considered to be fully earned upon the completion of registration by the student.

1. A student withdrawing within a period of five days after the scheduled registration period is entitled to a refund on charges except that \$10.00 shall be retained by the College to cover the expense of registration. (These refunds shall not include any deposits or advance payments that may have been required by the College as evidence of the student's intention to enroll, or the amount of \$15.00 charged for board for students who attend the orientation period.)

2. A student withdrawing at any time within the first 30 days after the scheduled period of registration shall be charged 25 per cent of the semester's room rent and fees.

3. A student withdrawing at any time within the second 30-day period after the scheduled registration shall be charged 50 per cent of the semester's room rent and fees.

4. A student withdrawing at any time after 60 days following the rate of registration shall be charged the full semester's room rent and fees.

5. No refunds of fees or room rent will be made to a student who

has been required to withdraw by the College regardless of the date of withdrawal.

6. In cases of withdrawal from College, charges for board will be calculated on a pro-rata basis.

Credits on Accounts of Scholarships Holders

Students holding scholarships are required to pay all fees less the value of the scholarship which they hold.

Withholding of Transcripts and Degrees in Case of Unpaid Accounts

Transcripts or any other information concerning scholastic records will not be released until college accounts are paid in full. Degrees will not be awarded to persons whose college accounts are not paid in full.

Cashing of Student Checks

The College does not have facilities for handling deposits for students' personal expenses but the Treasurer-Auditor's Office is prepared to cash checks up to \$25.00. All such checks should be made payable to the student or to cash. Under our regulations as a State institution, we are not permitted to cash checks made payable to the College of William and Mary.

FEES AND OTHER EXPENSES

Tuition and General Fee (\$250.00 per semester for State Students and \$630.00 for Out-of-State Students) is a payment towards the general maintenance and operating costs of the College including recreational and health facilities. (Board, room and laundry are additional.)

The Act affecting residency is as follows:

"Be it enacted by the General Assembly of Virginia, That no person shall be entitled to the admission privileges, or the reduced tuition charges, or any other privileges accorded by law only to residents or citizens of Virginia, in the State institutions of higher learning unless such person has been domiciled in and is and has been an actual bona fide resident of Virginia for a period of at least one year prior to the commencement of the term, semester, or quarter for which any such privilege or reduced tuition charge is sought, provided that the governing boards of such institutions may require longer periods of residence and may set up additional requirements for admitting students."

Laundry Fee

The fee (\$20.00 per semester) covers the laundry requirements of the average student and is required of all students living in dormitories, sorority houses and fraternity lodges.

Board

The College operates two large cafeterias and a snack bar, together seating over 1,600 persons. The dining halls are not operated for profit.

All students who are officially classified as freshmen and sophomores¹ and who are dormitory residents (including residents of the College-owned sorority and fraternity houses) will be charged for board at the rate of \$250.00 per student per semester for the period beginning on September 19, 1968. (Students entering for the orientation period beginning September 15, 1968, will be charged an additional \$15.00.)

Each student will be issued a Dining Hall Card which entitles that student to three meals daily for a period of approximately 120 days during the semester. The Christmas and Thanksgiving recesses during the first semester and the spring recess in the second semester are not included in the 120 days for which board is charged.

The Dining Hall Card will not be usable in the Wigwam (Coffee Shop).

It shall be optional with students not living in dormitories and students other than freshmen and sophomores whether they board in the College Dining Hall. They may elect to board by the semester in the Dining Hall in which case the charge for board will be \$250.00 per student per semester of approximately 120 days, or they may purchase a monthly Dining Hall Card for \$65.00 which will entitle the holder to three meals per day for a thirty-day month.

In cases of withdrawal from the College, the student will be given a refund calculated on a pro-rata basis determined by the date of official withdrawal, provided the Dining Hall Card is surrendered to the Treasurer-Auditor on this date.

Owing to uncertain conditions prevailing with respect to the cost of food supplies and of food service, the College reserves the right to change its rates for board at any time throughout the year to meet such additional costs.

¹For boarding purposes "Freshmen and sophomores" is interpreted to mean those students in their first two years of residence in College.

Room Rent

Men: Room rent in the men's dormitories varies from \$100.00 to \$225.00 per semester depending on the size of the room, location, bath, etc.

Women: Room rent in the women's dormitories varies from \$155.00 to \$225.00 per semester depending on the size of the room, location, bath, etc.

ESTIMATE OF SEMESTER EXPENSES

	<i>Low</i>	<i>Medium</i>	<i>High</i>
Board	\$250.00	\$250.00	\$250.00
Tuition and General Fee (State Student)	250.00	250.00	250.00 ¹
Room Rent	100.00	175.00	225.00
Laundry	20.00	22.00 ²	24.00 ²
Totals	\$620.00	\$697.00	\$749.00

INCIDENTAL EXPENSES

It is impossible to estimate the exact cost to students of clothing, travel and incidental expenses. These are governed largely by the habits of the individual. The College endeavors to minimize temptation to extravagance. The size of Williamsburg aids materially in this matter by not subjecting the students to the diversions of a larger city. As the demands for extra money are small, parents are advised to furnish only a small sum.

The cost of books depends somewhat on the courses taken, but will seldom be less than \$100.00 a year and does not usually exceed \$125.00 a year.

Money for books cannot be included in checks covering college expenses; books should be paid for in cash or by separate check when purchased. Checks for books should be made payable to the William and Mary Bookstore.

¹For out-of-State students add \$380.00.

²For excess over and above normal requirement.

NON-RECURRING FEES

Application fee	\$10.00
Room deposit	25.00
Room change fee	5.00
Bachelor's diploma	10.00
Master's diploma	10.00
Academic costume rent to seniors	5.00

Application Fee—A non-refundable processing fee of \$10.00 is required with undergraduate freshmen and transfer applications for admission to the College. This fee is not credited to the student's account. Students applying for admission from Christopher Newport and Richard Bland Colleges are excluded from payment of this fee.

Room Deposit—A deposit of \$50.00 is required by the College for a student to reserve a room. This payment is made to the Treasurer-Auditor and is applied on the student's regular college account.

This deposit may be made by students already enrolled at any time after the beginning of the second semester, but *must* be paid before March 15. No rooms will be reserved for students who have not paid their room deposit by the specified date.

The room deposit will be returned only to those students who cannot be accommodated in the dormitories or who cancel their reservations on or before July 1.

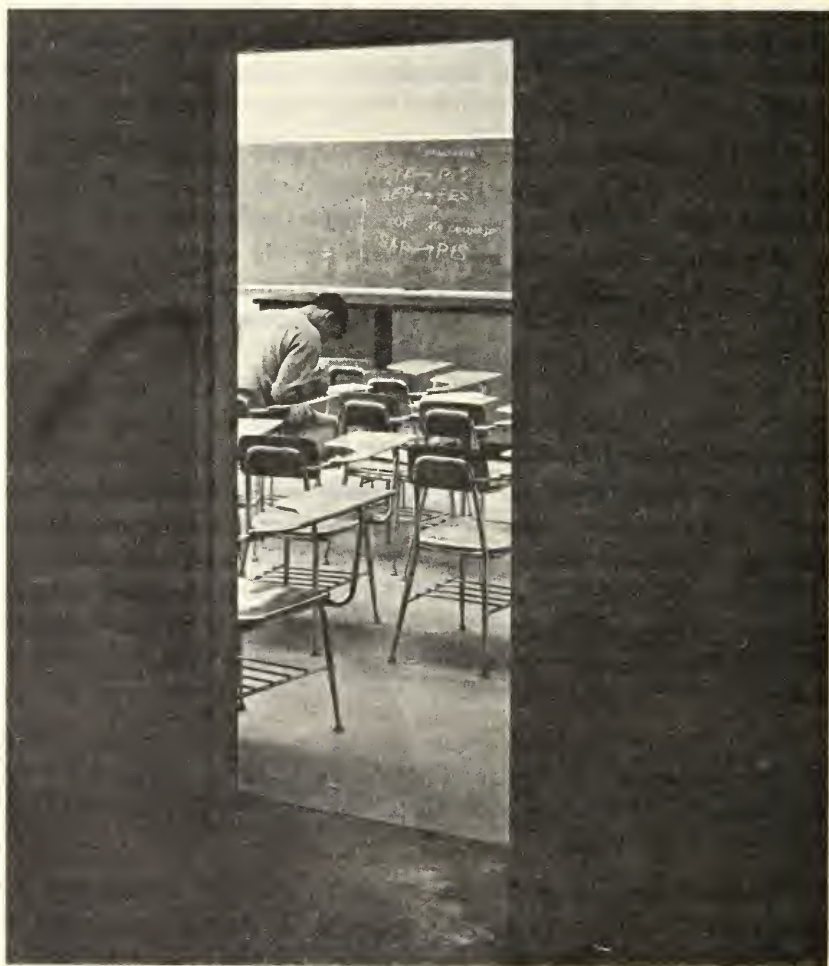
Students enrolling for the first time may not make a room reservation deposit until they have been notified of their admission to the College. The room deposit for entering students is not refundable.

Room assignments for women will be made by the Assistant Dean of Women. Room assignments for men will be made by the Assistant Dean of Men. Assignments will be made in order of priority of application.

Room Change Fee—Students are given two weeks to become settled in their rooms. Room rent for the two-week period will be based on the highest rate. Changes after this period will only be permitted after the payment of \$10.00.

Diplomas—The charge for the Master's diploma is \$10.00, and the charge for the Bachelor's diploma is \$10.00. These fees are payable at graduation.

Academic Costumes—Senior students may procure caps and gowns from the College rental supplier at the opening of the Fall semester prior to Commencement. Graduate students may avail themselves of this service just prior to graduation. Rental fee, payable to the supplier, is \$5.00 for these items. Academic hoods will be provided to all degree recipients by the College just prior to graduation at a rental fee of \$1.00. All fees are payable upon receipt of the items mentioned.



ADMISSION TO THE COLLEGE

BY ACT OF THE General Assembly of Virginia, men and women are admitted to the College on the same conditions. Applicants for admission must present their applications on printed forms obtained from the office of Admissions. While priority of application does not guarantee selection, candidates should plan to apply before January 1. Assignments to rooms are made after selection for admission, in the order of date of application for admission.

THE SELECTIVE PROCESS OF ADMISSION

The essential requirement for admission to the College of William and Mary is graduation in the upper half of the class from an accredited secondary school, or the equivalent of this requirement as shown by examination.

Since the number of applicants who meet the essential requirement is considerably in excess of the number that can be admitted, the College selects those who present the strongest qualifications in scholarship, character, and breadth of interests.

The high school record, test scores, recommendations by secondary school officials and information from such other sources as may be available will be utilized in selection. Characteristics such as determination, enthusiasm, self-discipline, imagination and ability to work with others are considered important. A record of interested participation in extracurricular activities when accompanied by good achievement in the field of scholarship increases the likelihood of the applicant's selection. The Admissions Committee, therefore, takes into account the participation of the candidate in such fields as publications, forensics, athletics, and the arts.

Recommendations from alumni or other persons may be requested when the College deems them necessary.

Scholarship

Evidence of superior achievement in the secondary school is considered of prime importance in determining selection for admission. High rank in the graduating class will be taken as presumptive evi-

dence of superior scholarship and will weigh heavily in the applicant's favor.

The College does not specifically prescribe the courses to be taken on the high school level. It is recognized that secondary school offerings as well as the individual's abilities and interests must be considered in developing a program. However, it is considered important that entering students have pursued an academic program which will prepare them for the degree requirements at William and Mary. It is suggested when possible, that prospective students include in their secondary school program (9th through 12th grades) four units of English, three in a Foreign Language (ancient or modern), or two in each of two Foreign Languages, two in Social Studies, three in Mathematics, and two in Science. Students, whose interests and schedules permit are encouraged to take additional courses in these areas. This suggested program is not intended as a rigid requirement and the fact that students do not present the units listed will not bar their applications from consideration and acceptance.

Tests of the College Entrance Examination Board

Freshman applicants must take the Scholastic Aptitude Test and three prescribed Achievement Tests of the College Entrance Examination Board. The Achievement Tests are *specifically required* in English Composition, Foreign Language—preferably in the language that the student plans to continue in college, and Mathematics—Level I (Standard) or Level II (Intensive). These tests should be taken no later than January of the final year in secondary school. There are no minimum scores required, since the results of these tests are used with other information in determining the student's academic potential and for counseling and placement. Information regarding these tests may be obtained by writing to the College Entrance Examination Board, Box 592, Princeton, New Jersey, and the application must request that his scores be reported directly to the College from that agency.

Interviews

Interviews are not usually required. If after reviewing the record of an applicant, additional information is desired, an interview may be required by an alumnus or a member of the Admissions staff. Unless an interview is specifically requested by the Dean of Admissions, the

fact that the applicant has not had an interview with a member of the Admissions staff will have no bearing on the action on his application. Individuals who desire an interview should contact the Office of Admissions in advance in order that a specific time and date can be arranged.

Admission of Transfer Students

A limited number of transfer students from other institutions are admitted for the semesters beginning in September and February.

To be considered for admission, the application must have maintained an overall "C" average in courses taken for credit in other institutions.

No student may be considered for admission to the College (undergraduate, graduate, or law) unless he is, or at the time of departure was, in academic and social good standing at his previous institution or institutions. An official transcript or other communication from said institution must indicate this fact and that he is entitled to honorable dismissal.

Early Decision Plan

The College admits a limited number of freshmen students under the Early Decision Plan. This is a special plan designed to reduce the burden of the admissions process for those applicants who are considered highly desirable for admission by the College and who fully intend to matriculate. Students applying for early decision should possess high academic qualifications and have decided that William and Mary is their first choice of Colleges. Early decision applicants who are not selected under this plan will be considered along with other applicants for available spaces under the regular admission process.

Procedure to Be Used in Applying for Early Decision

1. Submit preliminary application card and application fee. Beginning in August preceding the final year in secondary school, all applicants who have submitted preliminary application card with fee will be sent a personal application form with complete instructions and a letter of intent to be submitted in applying for admission under the Early Decision Plan.
2. Applicants applying for admission under the Early Decision Plan

should plan to take the Scholastic Aptitude Test before the beginning of the senior year and the Achievement Tests no later than January of their final year in secondary school.

3. Submit personal application, letter of intent, secondary school record, and Scholastic Aptitude Tests scores before November 1 of the senior year.

4. The Office of Admissions will notify the candidate of the action taken on his application for early decision by November 15.

5. The applicant who has been notified of his acceptance by the Office of Admissions must signify his final intention to enroll in the College by paying a non-refundable deposit by December 1.

Notification of Decision

Since qualifications of applicants must be considered relative to one another, decisions on individual candidates are delayed until other applications are examined. Candidates for admission under the Early Decision Plan can expect to receive notice of the action on their application by November 15. Students who are applying for regular admission will be notified not later than April 1. Applicants for the semester beginning in February will be notified of the decision on their application as soon as feasible after November 15.

The Advanced Placement Program

The College participates in the Advanced Placement Program of the College Entrance Examination Board. This program offers to able and ambitious students, who have a strong preparation, the opportunity to qualify for advanced placement and credit in Biology, Chemistry, English, History, Latin, Mathematics, Modern Languages and Physics.

Successful candidates for admission who wish to be considered for advanced placement and credit should take the Advanced Placement Test of the College Entrance Examination Board and have these scores reported to the College. After consideration of the test papers and other evidence concerning proficiency in the subject area, the student will be informed of the decision of the department concerned regarding advanced placement and credit. A student who is successful in gaining advanced placement and credit will be provided with more time than normal to pursue courses in areas related to his field of concentration or in other areas of interest, rather than the repetition of

courses in which proficiency has been established by work on the secondary school level.

ADMISSION TO THE GENERAL HONORS PROGRAM

The College each year admits a limited number of beginning freshmen into a General Honors Program. This program brings together students of outstanding capability and makes available to them informal colloquia, honors courses, and other special academic opportunities. The object of the program is to stimulate within both the individual and the group the processes of intellectual excitement and intellectual growth.¹

Entering freshmen are selected for the program on the basis of College Board aptitude scores, rank in class, a letter of recommendation, and other evidences of high motivation and a sense of general involvement. The normal process of admission, which occurs during the spring preceding registration, is as follows: (1) Invitations to apply for the program are extended by the Office of the Director of Honors to a select group of high school seniors who have already been accepted by the College. (2) Applications should be returned as soon as possible in order to receive the most favorable consideration. (3) Every applicant is notified of the action taken on his application no later than June 30. The opportunity exists for a very limited number of students to enter the program in the second semester of their freshman year or as beginning sophomores.

Requests for further information or inquiries concerning the Honors Program should be addressed to: Director of Honors, College of William and Mary, Williamsburg, Virginia 23185.

UNDERGRADUATE ADMISSION TO THE SCHOOL OF BUSINESS ADMINISTRATION

Applicants must be admitted to the College prior to admission to the School of Business Administration. Application for undergraduate concentration in Accounting or Management is accepted the semester prior to the time the student expects to enroll in the School of Business Administration as a concentrator. Final approval for admission will not be given until the student has attained junior standing in the College.

¹See page 186 for additional information on 'general honors.

UNDERGRADUATE ADMISSION TO THE SCHOOL OF EDUCATION

Applicants must be admitted to the College prior to admission to the School of Education. Applications for undergraduate concentration are accepted the semester prior to the time the student expects to enroll in the School of Education as a concentrator. Final approval for admission will not be given until the student has attained junior standing in the College.

ADMISSION TO GRADUATE STUDY

Application forms for admission to graduate study under the Faculty of Arts and Sciences should be requested from the chairman of the department in which the applicant intends to do his major work. Forms for admission to graduate study in the Schools of Marine Science and Education should be requested from the offices of the respective Deans, and for the Master of Business Administration program from the Director, Graduate Studies, School of Business Administration. Beginning graduate students may be accepted for September or February of each year at the discretion of the department or school concerned, and also in June for degree programs in the Schools of Marine Science, Education, and Business Administration. Applicants should be aware that deadlines for submitting applications vary with the individual departments and schools and are usually several months in advance of the time of admission.

Admission Requirements

Students are admitted either to regular or unclassified graduate status. For admission to regular graduate status an applicant must have completed the requirements for a Bachelor's degree in an institution of approved standing, must have achieved a quality point average of 1.5 (on a 3.0 scale), and must have the recommendation of the head of the department or of the Dean or Admissions Committee of the school in which he intends to do his major work. Applicants with less than a 1.5 quality point average may be admitted as unclassified graduate students upon the recommendation of the head of the department or of the Dean or Admissions Committee of the school concerned. All applications are subject to the approval of the Dean of Graduate Studies acting on behalf of the Graduate Council. Grad-

uate work taken prior to admission to regular status may be credited toward a degree program only with the approval of the Dean of Graduate Studies.

Certified transcripts of the applicant's record at every college or university previously attended and letters of recommendation from three persons familiar with his academic or professional background are required. Unless the applicant is notified otherwise, it is his responsibility to request his recommenders to submit letters to the College.

Applicants should also consult the additional requirements for admission described under the catalog listings of the individual departments and Schools.

Graduate Record Examination and Admission Test for Graduate Study in Business

Applicants for admission to graduate study may be required to take the Graduate Record Examination by the department or school to which they are applying. Applicants for the Master of Business Administration program are required to take the Admission Test for Graduate Study in Business. Applicants must register directly for these tests with the Educational Testing Service, Princeton, New Jersey.

ADMISSION TO THE LAW SCHOOL

Application forms for admission should be requested from the Dean of the Marshall-Wythe School of Law. Applicants will be sent the usual forms which should then be completed and returned. Beginning students in law are accepted in September and, in exceptional cases and when the enrollment position permits, in February of each year.

Applicants must have at least a 1.4 quality point average or its equivalent in their over-all undergraduate work (A—3 points, B—2 points, C—1 point, D—0 points), and a satisfactory score in the Law School Admission Test.

All candidates for the Juris Doctor degree must have received a bachelor's degree from an approved college or university. However, a student may begin his law study in his undergraduate senior year in the combined six-year program, but must receive a baccalaureate degree before he may become a candidate for the law degree.

Within the discretion of the faculty of the School, and when the enrollment permits it, persons of exceptional promise who fail to meet the above requirements may be admitted as special students and may take subjects in Law approved by the Dean of the School.

Combined Six-Year Program

Undergraduate students who have completed three-fourths of the work required for a baccalaureate degree with an over-all quality point average of 1.5 may take courses in law for simultaneous credit toward fulfillment of both baccalaureate and law degree requirements. Application to engage in this accelerated program should be made to the Dean of the Law School. The Law School Admission Test should be taken early in the applicant's undergraduate junior year. Approval of the application assures admission to the Law School upon completion of the baccalaureate degree requirements provided that there is good achievement in the law courses taken in the senior undergraduate year. Upon completion of the baccalaureate degree requirements with such good achievement, and upon his own petition, the student's status is changed to that of candidate for the Juris Doctor degree with advanced standing.

Combined Six-Year Program in Conjunction with Other Approved Colleges

Undergraduate students of other approved colleges which give credit toward fulfillment of the requirements of the baccalaureate degree granted by such other institutions for the time in residence and work completed at William and Mary may also participate in the combined six-year program. Students who have completed three academic years of full-time study at another accredited college with the equivalent of the William and Mary 1.5 quality point average may be considered for admission as unclassified students to take courses in law for such undergraduate credit as the other college may allow. Application should be made to the Dean of the Law School and the Law School Admission Test should be taken early in the applicant's undergraduate junior year. Upon earning the baccalaureate degree of the other college, with good achievement in the law courses taken at William and Mary, and upon his petition, the student's status is changed from that

of unclassified student to that of candidate for the Juris Doctor degree with advanced standing.

Transfer from Other Law Schools

Students from law schools approved by the American Bar Association who have received a baccalaureate degree and who are in good standing may apply for admission to this school as transfer students. If admitted, credit will be given for work done at other approved law schools not to exceed sixty semester hours provided such work has been of a quality well above passing.

Law School Admission Test

All applicants are required to take the Law School Admission Test which is given four times a year at various centers in the United States. The score secured on this test affords evidence of the applicant's aptitude for law study and is useful for counseling him as to his work. The results of such a test must be considered along with the applicant's personality traits; for such characteristics as courage, determination, enthusiasm, self-discipline, and ability to work with others are as important as natural ability. Information about this test may be obtained from the Educational Testing Service, Princeton, New Jersey. Students pursuing the six-year combined program must take this test before taking law courses in their senior year.

Other Factors

As in the case of undergraduate admission, evidence of good moral character and the ability to make a desirable adjustment to the College will weigh heavily in the consideration of applications for the Law School. An interview with an officer of the College or an alumnus of the College may be required. Recommendations by officials at a candidate's previous college will be secured by the Dean of the Law School, and these recommendations will be considered carefully when the candidate's application is reviewed.

REQUIREMENTS FOR DEGREES

THE DEGREES conferred in course are Bachelor of Arts (A.B.), Bachelor of Science (B.S.), Juris Doctor (J.D.), Master of Arts (M.A.), Master of Science (M.S.), Master of Education (M.Ed.), Master of Business Administration (M.B.A.), Master of Teaching Science (M.T.S.), Master of Law and Taxation (L.&T.M.), Doctor of Philosophy (Ph.D.), and Doctor of Education (Ed.D.).

The requirements for degrees are stated in terms of "semester credits" which are based upon the satisfactory completion of courses of instruction. One semester credit is given for each class hour a week through a semester. Not less than two hours of laboratory work a week through a semester will be required for a semester credit. A semester is a term of approximately eighteen weeks or one-half of the college session.

Courses of the 100 series are primarily for freshmen, 200 for sophomores, 300 and 400 for juniors and seniors. Courses of the 500 and 600 series are intended for graduate students only. Odd numbered courses are ordinarily offered in the first semester but may be offered in the second semester also; even numbered courses are ordinarily offered in the second semester but may also be offered in the first semester.

A continuous course covers a field of closely related material and may not be entered at the beginning of the second semester without approval of the instructor.

(*) Starred courses may be taken only with the consent of the instructor.

(†) Daggered courses may be taken only with the consent of the head of the department concerned.

No credit will be counted toward a degree for the first semester of an elementary foreign language unless followed by the successful completion of the second semester of that language.

EVALUATION OF CREDITS FROM OTHER INSTITUTIONS

The credits of students transferring from other institutions will be evaluated only tentatively upon matriculation. The final evaluation of credits earned at any time elsewhere than at this institution will

be determined by the quality of work completed at this college. Evaluations of records are not made by the Committee on Degrees until after students have been selected for admission. In general, credits from accredited institutions are accepted provided they carry a grade of "C" or better and are comparable to courses offered at the College. No student may assume that credit will be given for work at other institutions until he has a written statement as to what credit will be expected. In particular, any student of the College in Williamsburg who proposes to attend a summer session elsewhere must have written permission in advance from the Chairman of the Committee on Degrees in order to insure that the credit may be transferred to the College in Williamsburg. Credits carrying a grade of "D" will not be accepted for transfer to the College of William and Mary. In determining the number of quality points on credits accepted from other institutions which may be counted toward the minimum of one hundred twenty required for graduation, credits of grade "C" or higher will be considered as having a value of "C." Credit for extension courses in the field of concentration or for the requirements for the baccalaureate degree shall be limited to one-fourth of the total credit hours required. Normally, no more than sixty-two academic credits will be transferred from colleges accredited to offer only two years of academic work on the college level. It is the policy of the College not to grant credit for attendance in service schools or training programs in the Armed Forces unless it can be demonstrated that such attendance is the equivalent of a course or courses offered at William and Mary. Academic credit for courses taken while on military service at accredited colleges, universities or language institutes may be transferred in the normal manner. No credit will be granted for general military training or for the college level General Educational Development Tests.

SYSTEM OF GRADING AND QUALITY POINTS

The work of each student in each course in an academic subject is graded A, B, C, D, or F. These grades have the following meanings: A, superior; B, good; C, average; D, passing; F, failing. For each semester credit in a course in which a student is graded A he receives 3 quality points; B, 2; C, 1. F carries no credit and no quality points. D carries credit but no quality points. The work in required physical education is graded S (satisfactory) or F (failed).

In addition to the grades A, B, C, D, and F, the symbols "G," "I," "X," "WP," and "WF" are used on grade reports and in the College records. "G" indicates that the instructor has deferred reporting the student's grade. "I" indicates that the student has postponed, with the consent of the instructor, the completion of certain required work other than the final examination. "X" indicates absence from the final examination. "I" automatically becomes F at the end of the next semester if the postponed work has not been completed. "X" automatically becomes F at the end of the next semester unless a deferred examination is permitted by the Dean of the Faculty. "WP" (withdrew, passing) and "WF" (withdrew, failing) indicate the standing of a student who withdrew from the College between midsemester and the end of the semester.

REQUIREMENTS FOR THE DEGREES OF A.B. AND B.S.

The requirements for the degrees of Bachelor of Arts and Bachelor of Science are stated in the succeeding paragraphs under the following headings: I, General Requirements for the Degrees of A.B. and B.S.; II, Distribution, Concentration, and Electives; III, Fields of Concentration; IV, Honors Program.

I. GENERAL REQUIREMENTS FOR THE DEGREES OF A.B. AND B.S.

One hundred and twenty-four semester credits are required for graduation. Of these one hundred and twenty-four semester credits, one hundred and twenty must be in academic subjects and four in required physical education. A minimum of 120 quality points in academic subjects is required.¹

The student must make a minimum quality point average of 1.0 for all courses in the field of concentration for which he receives an official grade.

No degree will be granted by the College until the applicant has been in residence at least one college year and made a minimum of thirty semester credits at the College in Williamsburg. This period must include the last year of the work required for the completion of the degree.

¹"Academic subjects" means subjects other than required physical education.

A student must fulfill the general degree requirements set forth in the catalog at the date of entrance to the College, and he must fulfill the concentration requirements in effect when the choice of concentration is declared. A student who fails to graduate within six calendar years of the date of entrance to the College relinquishes the right to graduate under the requirements set forth in the catalog at the time of entrance, and must fulfill the requirements in effect during the final session of his attendance at the College.

A student must complete the requirements for a degree within ten semesters of residence in College provided, however, that when a student has been permitted to reduce his schedule below that normally required, the total period of residence permitted for the completion of the degree requirements shall be extended in proportion to the reduction permitted. In the application of this requirement, attendance in Summer Session will be included. Such attendance will be counted on the basis of the ratio of the Summer Session course load to the normal program of the regular session. Students transferring from other institutions should expect to spend at least two years in residence at the College.

II. DISTRIBUTION, CONCENTRATION, AND ELECTIVES

The credits required for graduation are to be secured in accordance with the following arrangement:

A. Distribution

The Distribution Requirements are designed to insure that a certain amount of every student's course work will be distributed among each of six different general areas of knowledge. The range of courses which Bachelor of Arts and Bachelor of Science students may take to satisfy the Distribution Requirements is listed below.¹

¹An entering freshman may receive a limited amount of credit or advanced placement in certain fields through satisfactory achievement on the Advanced Placement Tests of the College Entrance Examination Board or, in some instances, on other evidence of superior preparation in secondary school. These fields are Biology, Chemistry, English Composition, English Literature, American History, European History, Latin, Mathematics, French, German, Spanish, and Physics. Further information can be obtained from the Dean of Admissions.

BASIC REQUIREMENTS FOR THE BACHELOR OF ARTS AND
BACHELOR OF SCIENCE DEGREE

1. English Language and Composition
(Eng. 101, 102 or 101H, 102H) 6 semester credits
English 201, 202, 201H, 202H or Fine Arts 201, 202,
or Humanities 201, 202 6 semester credits
2. Ancient or Modern Foreign
Language 6 to 14 semester credits
 - (a) A student who enters College with *less than two* high school units of a foreign language must acquire *fourteen semester credits in a single foreign language*, ancient or modern. Introductory courses in Greek and Latin meet four hours per week. Introductory courses in French, German, Italian, Russian and Spanish meet five hours per week (4 credits each semester).
 - (b) A student who enters with *two* high school units of a foreign language must acquire *twelve semester credits in that same language* beyond the introductory level or *fourteen semester credits in a single new language*.
 - (c) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *three-year* high school knowledge of a foreign language must acquire *nine semester credits in that same language* or *fourteen semester credits in a single new language*.
 - (d) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *four-year* high school knowledge of a foreign language must acquire *six semester credits in that same language* or *fourteen semester credits in a single new language*.

No credits will be counted toward the degree for the first semester of an introductory foreign language unless followed by the successful completion of the second semester of that language.
3. Mathematics or Philosophy 201, 202 6 semester credits
4. Biology, Chemistry, Geology or Physics 8 semester credits
5. Physical Education 101, 102, 201, 202 4 semester credits

Economics 201, 202;¹ Government 201,
202;² History 101, 102; or Sociology
201, 202.³ (Any two of these courses) 12 semester credits

In addition to satisfying the Distribution Requirement in Science, a candidate for the B.S. degree *must take a continuous course in a second and different science* selected from this group in accordance with the requirements of the Department in which the student is concentrating. In selecting the foreign language to satisfy the distribution requirement and in exercising the option between Mathematics and Philosophy, a student should consider carefully the recommendations and requirements in his anticipated field of concentration.

All students who have completed less than 45 semester credits in academic subjects (except part-time students and students enrolled in pre-professional programs approved by the College) must carry in each semester at least three of the courses (not including Physical Education) which meet these distribution requirements. Unavoidable exceptions to this regulation must be approved by the Committee on Academic Status.

English 101, 102 and Physical Education 101, 102 must be taken in the freshman year. Physical Education 201, 202 must be taken in the sophomore year.

B. Concentration

Before the end of the sophomore year each student shall select a major department in which he shall concentrate during his junior and senior years. The following rules shall govern concentration:

- (a) The whole program of concentration shall represent a coherent and progressive sequence.
- (b) The student in consultation with the head of his major department shall select the courses for concentration. Of these, at

¹Freshmen may elect Economics 201, 202.

²Freshmen may elect Government 201, 202 with the consent of the instructor.

³Freshmen may elect Sociology 201, 202 if they have completed *two units of secondary school preparation in social science courses*, including a minimum of one unit in World History and/or European History, or satisfactory achievement on the Advanced Placement Tests, or with the approval of the head of the department.

least thirty semester credits must be with the major department.

- (c) Each department may require as many as twelve additional semester credits in courses from that department or from other departments.
- (d) A student cannot change his concentration after registration for the second semester of the Senior year.

When a student concentrates in a field in which he has received credit for a distribution requirement, such credit shall be counted in the total field of concentration.

No student shall be permitted to apply toward a degree more than forty-two semester credits in a subject field. The subject fields include: Anthropology, Biology, Business Administration, Chemistry, Economics, Education, English, Fine Arts, French, Geology, German, Government, Greek, History, Latin, Law, Mathematics, Music, Philosophy, Physical Education for Men, Physics, Psychology, Sociology, Spanish, and Theater and Speech.

No student shall be permitted to apply toward a degree more than twenty-one semester credits in technical courses in any one subject field nor in any one department.

Students in Elementary and Secondary Education may apply twenty-seven semester credits and twenty-four semester credits respectively in Education toward the A.B. degree.

C. Electives

Of the number of semester credits remaining for the completion of the degree requirements, at least nine semester credits must be chosen from departments other than those in which courses for concentration were selected.

III. FIELDS OF CONCENTRATION

Degree of Bachelor of Arts

The following concentrations are approved: Ancient Languages, Anthropology, Business Administration,¹ Economics, Education, English Language and Literature, Fine Arts, Geology, Government, His-

¹The School of Business Administration offers concentration in Accounting and Management.

tory, Law, Mathematics, Modern Languages,¹ Music, Philosophy, Physical Education for Men, Psychology, Sociology, and Theater and Speech.

NOTE: Students planning to concentrate in Modern Languages are required to take six semester credits of Latin or Greek.

Degree of Bachelor of Science

The following departments are approved for concentration: Biology, Chemistry, Geology, Mathematics, Physical Education for Men, Physics and Psychology.

NOTE: The twelve or fourteen semester credits of foreign language required for distribution must be taken in French or German or Russian by students planning to concentrate in Chemistry, with the exception of those who are preparing for medicine. Further, a reading knowledge of scientific German will be required of those students who wish to meet the minimum standards for professional training in Chemistry (see page 132).

Degree of Juris Doctor

For the requirements of this degree, see pages 95-97, 299-300.

IV. DEPARTMENTAL HONORS PROGRAM²

The Departmental Honors Program provides special opportunities for the intellectual stimulation and development of superior students in certain departments through independent study. Departments participating in the program during the 1968-1969 academic session are Ancient Languages, Anthropology, Biology, Economics, English, Fine Arts, Government, History, Modern Languages, Philosophy, Physics, Psychology, and Sociology.³ Students in this program may, as the result of distinguished work, be awarded a degree with "Honors," "High Honors," or "Highest Honors."

1. *Eligibility, Admission and Continuance in the Program*

A. Eligibility is contingent upon the student's achieving a mini-

¹The Department of Modern Languages offers concentration in French, German and Spanish.

²See pages 93, 186 for information on the General Honors Program.

³See the descriptions under these departments for specific requirements.

mum quality point average of either (1) 2.0 on a cumulative basis by the end of the junior year, or (2) 2.0 for the junior year alone.

- B. A student who wishes to pursue honors work and who has good reason to believe that he will qualify under paragraph "A" above should declare his interest as early as possible to the Head of his Department. Such declaration should be made in the spring of his sophomore year when he declares his field of concentration but may be made as late as the spring of his junior year. Application for admission to honors must be made in the spring of the junior year. The student who is acceptable to the Head of the Department and whose eligibility has been certified by the Dean of the Faculty of Arts and Sciences will be admitted to candidacy (subject to considerations of teaching staff availability) prior to registration in the fall of the student's senior year.
- C. The continuance of a student in the Honors Program is contingent on his maintaining what his major department judges to be a sufficiently high standard of work.

II. *Minimum Requirements for a Degree with Honors*

- A. Satisfactory completion of a program of reading and research supervised by a faculty member designated by the head of the student's major department. Six hours of credit in a course designated 495-496 in each department offering Honors shall be awarded each student satisfactorily completing the program.
- B. Satisfactory completion of the general requirements for the degree of A.B. or B.S.
- C. Presentation of an Honors Essay or completion of an Honors Project acceptable to the major department. This requirement must be met by May 1 of the student's senior year.
- D. Satisfactory performance in a comprehensive examination in the field of the student's major interest.

III. Examining Committee

- A. Each comprehensive examination shall be set and judged and each Honors Essay or Project shall be judged by an examining committee of not less than three members, including at least one member of the faculty of the candidate's major department and at least one faculty member from another department.
- B. Examining committees shall be appointed by the Dean of the Faculty of Arts and Sciences.

IV. Standards

- A. Final determination of a student's standing with respect to honors shall rest with his examining committee. The committee shall take into account (1) the recommendation of the major department, (2) the recommendation of the major adviser, and principally (3) its own judgment of the comprehensive examination and essay or project.
- B. A minimum grade of "B" on both the comprehensive examination and the essay or project is required for "Honors." The award of "Honors," "High Honors," or "Highest Honors" shall be determined by the student's examining committee.
- C. When a student's work does not, in the opinion of the Committee, meet the minimum requirements for honors, the faculty members supervising the student's Honors work will determine what grade should be granted. A student may be dropped from honors work at the end of the first semester.

V. GRADUATE STUDY

The special requirements for the degrees of *Master of Arts* in Biology, Chemistry, Education, Government, History, Marine Science, Mathematics, Physics, Psychology, and Sociology, *Master of Science* in Mathematics and Physics, *Master of Education*, *Master of Law and Taxation*, *Master of Business Administration*, *Master of Teaching Science*, *Doctor of Philosophy* in History, Marine Science, and Physics, and *Doctor of Education* are described under the appropriate departmental headings.

Degree of Master of Arts

- I. The head of the department in which the student concentrates will plan and approve the student's program.
- II. A minimum residence period of one regular session or of four summer sessions of ten weeks each is required.
- III. Candidates must demonstrate a reading knowledge of one foreign language.
- IV. At least twenty-four semester credits of advanced work, of which at least one-half have been earned in courses numbered above 500, with a quality point average of 2.0 are required for the M.A. degree. No credit will be given for any grade below C.
- V. The student becomes a candidate for the Master's Degree upon recommendation of the department and approval of the Graduate Council after completion of a minimum of one semester of graduate work.
- VI. The student must present a thesis approved by the head of the department of concentration and by the student's examination committee. He must register for 560, Thesis, for at least one semester and may repeat this registration. This registration does not alter in any way the 24 credits in course work required for the M.A. degree. The thesis must be submitted in final form for acceptance or rejection two weeks before the student expects to receive the degree. The degree will not be granted until three bound copies have been presented by the student to the Dean of Graduate Studies.
- VII. An examination covering the entire field of study is required. This examination is conducted by the student's examination committee.
- VIII. All requirements for the degree must be completed within a maximum period of six calendar years after commencing graduate study as a candidate for the degree.

NOTE: The student's major professor with two or more members of the faculty, appointed by the Dean of Graduate Studies in consultation with the head of the department in which the student concentrates, will act as his examination committee.

Degree of Master of Science

With the exception of a thesis, the general requirements for the degree of Master of Science are the same as for the Master of Arts. In place of the thesis, a candidate must successfully complete eight additional semester hours of course work.

Degree of Doctor of Philosophy

- I. A minimum of three years of graduate study beyond the baccalaureate is required. At least one academic year beyond the first must be spent in continuous residence as a full-time student at The College of William and Mary.
- II. Course requirements for doctoral students shall be at the discretion of the major department or school.
- III. Each doctoral student must demonstrate a reading knowledge of two foreign or classical languages. The manner of examination and the languages approved for examination shall be at the discretion of the department or school. This requirement must be fulfilled before the student may complete his comprehensive qualifying examination.
- IV. Each doctoral student must pass a comprehensive qualifying examination designed to demonstrate competence in his field of study. Methods of examination, whether written or oral, shall be at the discretion of the student's department or school. An examining committee shall be appointed for each student by the Dean of Graduate Studies upon the recommendation of the department or school.
- V. The doctoral student must pass the comprehensive qualifying examination before being admitted to candidacy. Admission to candidacy is required before the dissertation can be accepted.
- VI. Each candidate for the Ph.D. must submit an acceptable dissertation based on original research and constituting a contribution to scholarly knowledge. A dissertation committee consisting of at least five (5) members, one of whom must be from outside the student's major department or school, shall be named by the Dean of Graduate Studies upon the recom-

mendation of the department or school. The committee may include qualified persons from outside the College, but a majority of the committee, including the director of the dissertation, who shall serve as chairman, must be members of the faculty of the College.

- VII. Each candidate must successfully defend his dissertation in a final examination before it can be accepted by the College. This examination may be written or oral at the discretion of the department or school concerned and shall be open to the faculty and to such outside persons as the department or school may invite.
- VIII. Acceptance of the dissertation by the College is conditional upon the deposit of a master microfilm negative with University Microfilms, Ann Arbor, Michigan. The requisite fees shall be paid by the student.
- IX. All requirements for the doctoral degree must be completed within seven (7) calendar years of the time the student is admitted to the doctoral program.



Landrum Hall

FACULTY OF ARTS AND SCIENCES

DEPARTMENTS OF INSTRUCTION

Ancient Languages

PROFESSOR JONES (*Head of the Department*). ASSOCIATE PROFESSOR
LEADBEATER. ASSISTANT PROFESSORS MACGREGOR AND MONTGOMERY.

REQUIREMENTS FOR CONCENTRATION

A candidate for the A.B. degree with concentration in Ancient Languages will be expected to take at least 30 credits in Greek and Latin courses, with the majority of these credits in one of the two languages. If the major emphasis is on Greek, at least 6 credits of Latin should be taken; if the major emphasis is on Latin, at least 18 credits beyond the level of Latin 104 should be taken and at least 6 credits of Greek. Normally the student will be expected to take at least one course in the language of concentration during each semester of the junior and senior years. All concentrators in Ancient Languages are also advised to pursue over a period of years the study of a modern foreign language.

DESCRIPTION OF COURSES

101, 102. Elementary Greek. Continuous course; lectures four hours; four credits each semester. Miss MONTGOMERY.

The elements of the Greek language with translation of stories and poems from selected readers. Parallel study of aspects of Greek civilization and of the legacy left by Greek culture and thought to the modern world.

201. Grammar Review; Oral-Aural Comprehension. First semester; lectures three hours; three credits. Prerequisites: Greek 101, 102 or equivalent. Mr. LEADBEATER.

The first half of the semester will be devoted to a thorough review of Greek grammar, syntax, and vocabulary through exercises in prose composition. In the second half of the semester the comprehension and appreciation of the relationship between sound, meaning, and style

in Greek will be accentuated through the use of various oral-aural techniques.

202. Representative Prose Writers. Second semester; lectures three hours; three credits. Prerequisite: Greek 201 or equivalent. MR. LEADBEATER.

An introduction to some of the more important Greek prose writers, such as Plato, Aristotle, Xenophon, Thucydides, and Herodotus. Analysis of style, compositional techniques, and content. Comprehension of Greek in Greek rather than in English will be stressed.

***Greek Literature Cycle.** Each course one semester; lectures three hours; three credits. MR. LEADBEATER and STAFF.

The following courses are offered as the needs and wishes of students in the Department in any year may demand. For all of these courses, the completion of Greek 201, 202 or the equivalent is prerequisite. Those in the 400 group when supplemented by additional parallel reading may be counted toward the M.A. degree.

301. Philosophy—Plato.

302. New Testament—The Gospels, Acts and Epistles.

303. Homer—Selections from *Iliad* and *Odyssey*.

403. Historians—Herodotus, Thucydides.

404. Lyric Poetry.

405. Greek Tragedy—Aeschylus, Sophocles, Euripides.

406. Greek Comedy—Aristophanes and Menander.

LATIN

101, 102. Elementary Latin. Continuous course; lectures four hours; four credits each semester. Students who have acquired two high school units in Latin may not take Latin 101, 102 for credit. MR. MACGREGOR.

This course is designed to equip the student with a mastery of the structure of the Latin language and with a knowledge of basic vocabulary. There are translations from appropriate Latin texts and parallel study of pertinent aspects of Roman life and history.

103, 104. Grammar Review, Reading of Prose and Poetry. Continuous course; lectures three hours; three credits each semester. Prerequisite: at least two units of high school Latin or Latin 101, 102. MISS MONTGOMERY.

Note: A student who has had three years of Latin in high school and read Latin prose in the third year may not take Latin 103 for credit, but may take Latin 104. A student who has had three years of Latin in high school and read Latin poetry in the third year may not take Latin 104 for credit, but may take Latin 103. A student who has had four years of Latin in high school may take neither Latin 103 nor Latin 104 for credit.

In the first semester (103) there is a review of the elements of the language and the reading of passages from selected authors with emphasis upon Cicero. Parallel study of the history and institutions of Republican Rome. In the second semester (104) there is reading of selected books of Vergil's *Aeneid*. Parallel study of the history and institutions of the Empire; the epic and its influence upon subsequent literature.

201, 202. Literature of the Republic and the Empire. Continuous course; lectures three hours; three credits each semester. Prerequisite: three or four units of high school Latin or Latin 103, 104. MR. MACGREGOR.

The reading of selections representative of the works of the important writers in the periods of the Republic and Empire. The aim of the course is to help the student comprehend the total Roman achievement over a long span of time in the literary field.

***Latin Literature Cycle.** Each course one semester; lectures three hours; three credits. MR. JONES and STAFF.

The following courses are offered as the needs and wishes of students in the Department in any year may demand. For all these courses, the completion of Latin 201 and 202 or the equivalent is prerequisite. Those in the 400 group may be counted toward the M.A. degree when supplemented by additional parallel reading.

301. Cicero's and Pliny's *Letters*.

302. Catullus and the Elegiac Poets.

303. Cicero's *Orations*.

304. Horace's *Odes* and Martial's *Epigrams*.

305. Roman Comedy, Plautus and Terence.

307. Roman Private Life. Designed specifically for prospective teachers. An intensive investigation of all the major phases of everyday life of the Romans as a preparation for teaching the cultural material of first year high school Latin.

308. Critical Studies in Caesar. Designed for prospective teachers of second year high school Latin. The content, style, and aims of the *De Bello Gallico*. Latin prose composition based on Caesar.

310. Medieval Latin. Selections from Medieval Latin prose and poetry made on the basis of the needs and interests of the class.

401. Horace's *Satires* and *Epistles*.

402. The Latin Historians.

403. Cicero's Philosophical Works.

404. The Latin Epic—Vergil, or Lucretius.

405. The Teaching of High School Latin. Same as Education S305. Development of the Latin curriculum, methods of presentation, audio-visual aids, materials.

406. Silver Latin Satire—Juvenal or Petronius.

Greek-Latin 451. Proseminar. Lectures three hours; three credits. Introduction to the tools of classical scholarship. Study of the history of classical philology, its methods and aims, and an intensive study of classical bibliography. STAFF.

500. Special Topics. Either semester; three credits for each course. STAFF.

Courses of distinctly graduate character. Open from time to time to such candidates for the M.A. degree as are prepared to carry on individual study and research.

A. Seminar in Greek Literature. Intensive study of individual Greek authors or genres, varying from year to year in accordance with the students' needs;

B. Seminar in Latin Literature. Intensive study of individual Latin authors or genres, varying from year to year in accordance with the students' needs;

C. Satire and the Novel;

D. Palaeography;

E. Problems of Textual Criticism.

CLASSICAL CIVILIZATION

The following courses are offered as being of general cultural value and valuable contributions to the Humanities program of the College. *A knowledge of Latin and Greek is not required.* Some of these courses may be counted to the extent of six semester credits on a concentration in Latin or Greek, but will not absolve the language requirements for a degree. Courses numbered in the 200's are open to *all* students of the College. Courses numbered in the 300's and 400's are open to *sophomores, juniors, and seniors.*

Greek-Latin 205. Greek and Roman Mythology. Both semesters; lectures three hours; three credits. MR. MACGREGOR.

A systematic study of the principal Classical myths, their origins and meaning. Their place in Classical religion, art, and literature. Their appearance in later culture.

Greek-Latin 207-208. Masterpieces of Greek and Latin Literature. Lectures three hours; three credits each semester. MR. MACGREGOR.

An introduction to the principal literary achievements of Classical Greece and Rome. Reading, lectures, discussion.

Greek-Latin 217-218. Greco-Roman Archaeology and Art. Lectures three hours; three credits each semester. MISS MONTGOMERY.

The Study—by means of illustrated lectures, reading, and reports—of the nature of archaeological research; of the tangible remains of Greek and Roman civilization and art; of the aesthetic principles underlying their production; and of the influence of Greek and Roman art upon the art of subsequent periods.

Greek 311, Latin 312. The Ancient World. Continuous course; lectures three hours; three credits each semester. MR. JONES.

Ancient Civilization from prehistoric times to the downfall of the Roman Empire. The first semester deals with the ancient Orient and Greece; the second semester with Rome. This course is the same as History 301, 302.

Greek-Latin 401. Greek and Latin Epic. Lectures three hours; three credits. Careful reading, in English, of Homer's *Iliad* and *Odyssey*, Vergil's *Aeneid*, Lucan's *Pharsalia*. Discussion of the character and structure of the Classical epic and its influence on European epic and novel. MR. LEADBEATER.

Greek-Latin 402. Greek and Latin Lyric Poetry. Lectures three hours; three credits. Devoted to the study, in translation, of the major Classical lyric poets who have influenced the development of this genre in subsequent literary history. Parallel readings in the theories of lyric poetry and of selected poems showing the influence of Classical lyric forms. MR. LEADBEATER.

Greek-Latin 403. Classical Tragedy and Its Influences. Lectures three hours; three credits. Readings, in English, and discussion of the major works of Aeschylus, Sophocles, Euripides, and Seneca. Parallel readings in the theories of tragedy and of representative works, illustrating the influence of Classical Tragedy on subsequent literary history. MR. LEADBEATER.

Greek-Latin 404. Ancient Comedy and Its Influences. Lectures three hours; three credits. A study, in translation, of representative works of Aristophanes, Menander, Plautus, and Terence. Parallel readings in the theories of comedy and of representative works illustrating the influence of Ancient Comedy on subsequent literary history. MR. LEADBEATER.

Greek-Latin 405. Later Greek Philosophy. Lectures three hours; three credits. MR. LEADBEATER.

A study of the later aspects of Greek philosophy as they took form in Neo-Platonism and the Second Sophistic Movement. The course is intended to be an examination of Platonism as it developed in the philosophies of Plotinus, Iamblichus, Julian, and others. Emphasis will

be placed on the mysticism of the age and the reaction of and influence on Christian thought as revealed in selected readings from the Church Fathers.

HONORS STUDY

495, 496. Honors. Continuous course; hours to be arranged; three credits each semester. MR. LEADBEATER.

Students admitted to Honors Study in Ancient Languages will be enrolled in this course during both semesters of their senior year. The course comprises: (a) reading and discussion of selected authors in the language of the student's emphasis, Greek or Latin; (b) supervised reading of a special bibliography in the field of the student's major interests; (c) satisfactory completion by May 1, of a scholarly essay; and (d) a satisfactory completion of a comprehensive oral examination in the field of Greek and Latin Literature.



Anthropology students excavating an Indian burial ground along the Chickahominy River near Williamsburg

Anthropology

PROFESSOR ALTSHULER¹ (*Head of the Department*). VISITING PROFESSOR BERDICHEWSKY. ASSISTANT PROFESSORS BALLINGALL, BARKA AND REINHART. LECTURER McCARY.

REQUIREMENTS FOR CONCENTRATION

Concentration in Anthropology requires 30 semester credits in anthropology, including Anthropology 201, 202, 301, 302, 401, and 402. Honors candidates will take 495 and 496 in place of 402.

DESCRIPTION OF COURSES

201. Introductory Anthropology. First semester; lectures three hours; three credits. STAFF.

A general introduction to the field of anthropology. Particular attention will be given to recent archaeological discoveries concerning the origins of man, the development of agriculture, and the beginnings of urbanization.

202. Cultural Anthropology. Second semester; lectures three hours; three credits. STAFF.

The application of the concept of culture to the study of contemporary societies, both primitive and modern. Such institutional areas as magic and ritual; crime, custom, and law; economy; and courtship, marriage and child-rearing will be analyzed cross-culturally.

301. Methods in Archaeology. First semester; lectures three hours; three credits. MR. BARKA.

A general introduction to field and laboratory techniques of pre-historic and historic archaeological research.

302. Methods in Ethnography. Second semester; lectures three hours; three credits. MISS BALLINGALL.

An introduction to field study including the collection and interpretation of data. The course will also include a review of techniques developed by ethnographers for the study of living communities.

¹ On leave of absence Spring Semester 1969.

311. Archaeology of North America. First semester; lectures three hours; three credits. MR. REINHART.

The prehistoric peopling of the New World; the diffusion of culture from the great civilizations of Meso-America to other culture areas; the relation of prehistoric cultures to historic tribes.

314. Ethnology of North America. Second semester; lectures three hours; three credits. MR. ALTSHULER.

A descriptive survey of the major culture areas of native North America. Representative groups of Indians in each area will be discussed in terms of ecology, racial and linguistic affiliation, social organization, and value orientations. The diffusion of cultural traits from Meso-America, Oceania, and Asia as well as diffusion within North America will be analyzed.

316. The Virginia Indians. Second semester; lectures three hours; three credits. MR. McCARY.

A study of the origins and culture growths of the Virginia Indians from 15,000 B.C. to A.D. 1600. Careful attention will be given to the classification of artifacts associated with the various culture periods. Several field trips will be arranged.

321. Archaeology of Middle and South America. Second semester; lectures three hours; three credits. MR. REINHART.

An introduction to the prehistory of Middle and South America with special attention to the development of Aztec, Maya, and Inca civilizations.

323. Ethnology of South America. Second semester; lectures three hours; three credits. MR. BERDICHEWSKY.

A descriptive survey of the major culture areas of South America, analyzed in terms of such variables as race, language, ecology, dominant values, and culture contacts.

331. Ethnology of Africa. First semester; lectures three hours; three credits. MR. ALTSHULER.

A descriptive survey of the major culture areas of Africa, analyzed in terms of such variables as race, language, ecology, dominant values, and culture contacts.

342. Ethnology of Southeast Asia. First semester; lectures three hours; three credits. MISS BALLINGALL.

A descriptive survey of the major ethnic groups of Southeast Asia, analyzed in terms of such variables as ecology, physical type, language, dominant values, and personality structure. The course will also touch upon contemporary problems in Southeast Asia.

344. Ethnology of Oceania. First semester; lectures three hours; three credits. MISS BALLINGALL.

A descriptive survey of the Pacific Island World, including Aboriginal Australia, analyzed in terms of such variables as social organization, cultural pattern, and culture contact.

352. Archaeology of Europe. Second semester; lectures three hours; three credits. MR. BARKA.

A survey of the prehistoric and early historic cultures of Europe, covering the Paleolithic, Neolithic, Bronze, and early Iron Ages. Comparisons will be made with the cultural development of Asia, the Middle East, and Africa.

401. Anthropological Theory. First semester; lectures three hours; three credits. MR. ALTSHULER.

An analysis of the development of anthropological theory focusing upon key problems, concepts, and hypotheses as presented by such "schools" as the evolutionists, diffusionists, and functionalists.

402. Anthropological Research. Second semester; hours to be arranged; three credits. STAFF.

Independent study which will culminate in a senior essay. Required of all concentrators. (Honors candidates will take 495 and 496 in place of 402.)

411. Cultural Patterns and Technological Change. First semester; lectures three hours; three credits. MISS BALLINGALL.

An examination of the part played by culture in facilitating or impeding technological development in small societies. The approach will be to analyze the interdependence of various factors, such as cultural values, family structure, socialization process, and sustenance

pattern, as these bear upon the central theme of technological development. Case studies by anthropologists from a variety of cultures will be presented.

422. Personality in Culture. Second semester; lectures three hours; three credits. MR. ALTSHULER. (Not offered 1968-1969.)

The relationship of personality type to cultural factors such as myth and ritual, subsistence patterns, language, and child rearing will be considered utilizing data from a variety of cultures. Special attention will be given to differing concepts of identity, and mental illness and health.

450. Anthropology and Medicine. Semester to be announced; lectures three hours; three credits. STAFF.

The medical system of the United States will provide the basic unit of comparison for a review of the ways in which different societies cope with problems of ill-health. The focus will be upon cultural variation in definitions of "illness" and "therapy" and the manner in which such definitions and practices are interrelated with other aspects of culture.

HONORS STUDY

495, 496. Honors. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Anthropology will be enrolled in this course during both semesters of their senior year. The course comprises: (a) supervised research in the student's special area of interest; (b) the preparation and presentation by May 1 of an Honors Essay; and (c) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.

Biology

PROFESSORS BYRD (*Head of the Department*), BALDWIN, BLACK, AND CHESTER JONES.¹ ASSOCIATE PROFESSORS BROOKS, CALLARD, COURSEN, HALL, MANGUM, MATHES, AND Terman. ASSISTANT PROFESSORS GRANT, SIMONS, SPEESE, VANWINKLE, VERMEULEN, AND WARE. LECTURER GAPP.

REQUIREMENTS FOR CONCENTRATION

A minimum of 40 credits is required for concentration in Biology; Biology 101, 102 (8 credits), Biology 401 (4 credits), Biology 405, 408, or 419 (4 credits), and Biology 420 (1-2 credits) must be included. Chemistry 201, 202 is required for concentration in Biology. A maximum of 10 credits (which may include Chemistry 201, 202 may be approved in other departments for courses above the 100-level to be completed with a minimum grade of "C"). It is recommended that all biology concentrators complete Physics 101, 102.

DESCRIPTION OF COURSES

101, 102. Introductory Biology. Continuous course, lectures three hours, laboratory three hours; four credits each semester. MR. COURSEN and STAFF first semester; MR. BROOKS and STAFF second semester.

Concepts of modern biology based on molecular and cellular structure; a brief survey of the plant and animal kingdoms relating morphology to physiology; discussions on ecology, organic evolution, and the relation between biological problems and human society.

201. Comparative Anatomy of Vertebrates. First semester; lectures three hours, laboratory six hours; four credits. Prerequisite: Biology 102. MR. BYRD.

Consideration of the evolution of the larger taxonomic groups of chordates with a comparative study of their gross morphology.

202. Embryology of Vertebrates. Second semester; lectures three

¹ Visiting Professor, 1968-1969.

hours; laboratory six hours; four credits. Prerequisite: Biology 102. MR. SIMONS.

Description and analysis of the chief developmental events in the higher vertebrates.

203. Growth and Organization in Plants. First semester, 1969, and in alternate years thereafter; lectures three hours; three credits. Prerequisites: Biology 101, 102. MR. MATHES.

Discussion of cell growth, auxin balance, nutrition and division as factors which contribute to the determination of development pathways in plants.

206. Plant Taxonomy. Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 101. MR. BALDWIN.

Phyletic relationships of flowering plants and of ferns; principles of classification; collection and identification of representative native and cultivated plants.

208. Morphology and Phylogeny of Plants. Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 101. MISS SPEESE.

The morphology of representative lower plants is studied in the laboratory and in the field. Some experiments are performed.

209. Anatomy of Land Plants. First semester; lectures three hours, laboratory six hours; four credits. Prerequisite: Biology 101. MR. HALL.

A systematic survey of the major cell, tissue and organ types of the bryophytes, pteridophytes, gymnosperms and angiosperms. Taxonomy, life-cycles, paleobotany and evolutionary history of each group are discussed.

216. Invertebrate Biology. First semester; lectures three hours, laboratory six hours; four credits. MISS MANGUM.

Ecology, taxonomy, morphology, physiology and behavior of invertebrate organisms. Phylogenetic relationships are emphasized.

301. Microbiology. First semester; lectures three hours, laboratory six hours; four credits. Prerequisite: Introductory biology. MR. VERMEULEN.

Homologies are stressed in the study of life using the elementary systems of selected bacteria and other microorganisms. With the ultimate goal of an understanding of current research, the areas covered include classical and modern techniques, biochemistry, sexual and asexual genetics. This is not a conventional course in microbiology.

307. Human Physiology. Second semester; lectures two hours; laboratory three hours; three credits. Suggested prerequisite: Biology 101-102. STAFF.

Detailed study of the manner in which different organ systems of the human body function.

308. Human Anatomy. First semester; lectures two hours, laboratory three hours; three credits. STAFF.

Gross and histological study of the human organism with particular emphasis on the neuro-muscular systems as related to physical and health education.

313. Cytology. Second semester; lectures three hours, laboratory three hours; four credits. Prerequisites: Biology 101, 102; Chemistry 301 recommended. STAFF.

Lectures and laboratories deal principally with the morphology of the cell and the preparation of materials for cytological study. An introduction to submicroscopic anatomy, chemistry, and the physiology of the cell is given.

314. Biological Evolution. First semester; lectures three hours; three credits. Prerequisites: Biology 101, 102, one other biology course. Introductory chemistry and mathematics are recommended. MR. BROOKS.

Principles of biological evolution. Detailed discussion of natural selection, adaptation, population genetics, isolating mechanisms, and speciation.

401. Genetics. Either semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biology 101, 102; knowledge of chemistry recommended. MR. BALDWIN AND MISS SPEESE, first semester; MR. GRANT, second semester.

Principles of heredity, variation, and evolution; hybridization experiments; preparation of chromosomes.

402. Cytogenetics. Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 401. MISS SPEESE.

Components of cells as related to genetics. Preparation and study of chromosomes.

†403. Problems in Biology. Both semesters; hours to be arranged; credit according to performance. Prerequisite: Permission of Department Chairman and supervising instructor. STAFF.

Supervised projects selected to suit the needs of the individual student.

404. Topics in Biology. Either semester; lecture and laboratory, hours and credits (2-4) to be arranged. Prerequisite: Biology 101-102. STAFF.

Areas of special current research interest presented by resident and visiting faculty members as opportunity and demand arise.

405. Cellular Physiology. First semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biol. 101, 102; Chem. 201, 202. MR. BLACK.

The relationships between submicroscopic anatomy and chemistry of the cells are explored. Experiments dealing with cell-chemistry, permeability, metabolism, and growth are performed.

406. Experimental Embryology. Second semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biol. 102, 202. MR. BLACK.

Lectures and experiments dealing with the mechanisms of fertilization, cleavage, gastrulation, and organ-differentiation in both invertebrates and vertebrates are given.

407. General Ecology. First semester; lectures two hours, laboratory six hours; four credits. Prerequisites: Biology 101-102. Recommended: a course in plant taxonomy, vertebrate zoology, or invertebrate zoology. MR. WARE.

Discussion of interactions between organisms and their environment; factors controlling structure, function, and distribution of populations, communities, and ecosystems; survey of major biotic communities.

408. Mammalian Physiology. Second semester; lectures three hours, laboratory four hours; four credits. Prerequisites: General Biology and Organic Chemistry. Recommended: General Physics. MR. CALLARD.

The function of the animal as a whole as indicated by the physiology and interrelationships of different and organ systems.

410. Animal Behavior. Second semester; lectures three hours; three credits. Prerequisites: Biology 101-102. Recommended: Psychology 201-202. MR. TERMAN.

Description of the known behavior patterns of selected invertebrate and vertebrate groups with emphasis on adaptive significance. The genetics, ontogeny and ecological significance of behavior patterns will be presented where known.

411. Developmental Biology. First semester; lectures three hours; three credits. Prerequisites: Biology 202 and Chemistry 202. MR. SIMONS.

A consideration of the differentiation of cells and organelles in terms of their molecular organization and functional activities.

412. Biology of the Vascular Plants. Second semester; lectures three hours, laboratory six hours; four credits. MR. HALL.

An advanced study of the major families of vascular plants, emphasizing comparative morphology and evolutionary trends, ecological relationships, economic importance, the history and the theory of classification, and classical and experimental research methods.

414. Biochemistry. Second semester; lectures three hours; three credits. Prerequisites: Mathematics 103; Organic Chemistry or permission of instructor. MR. VERMEULEN.

A study of the molecular bases of living processes: The chemistry of the important constituents of living matter; energy metabolism; enzyme kinetics; thermodynamics; biosynthesis; metabolic control.

415. General Endocrinology. First semester, alternate years; lecture two hours, laboratory three hours; three credits. Prerequisites: General Biology. Recommended: Comparative Anatomy. MR. CALLARD.

The role of hormones in the maintenance of homeostasis, control of metabolic processes, and reproduction as exemplified by mammals. This course is intended as an introductory course and is a prerequisite for Comparative Endocrinology.

416. Introduction to Ornithology. Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biology 102. MR. BYRD.

Introduction to the biology of birds; lecture and laboratory work on morphology, classification, migration, distribution, and breeding biology; field work on identification and general ecology.

417. Biostatistics. First semester; lectures three hours; three credits. Prerequisites: Biology 101, 102; one year of college mathematics. MR. VANWINKLE.

An introduction to the design, analysis, and interpretation of experiments. Intended for students with research projects dependent on the use of observed data from planned experiments.

418. Experimental Biochemistry I. Second semester; laboratory six hours; two credits. Prerequisites: Biology 414 (or concurrent registration), Chemistry 201, Mathematics 201, Introductory Physics or consent of instructor. MR. VERMEULEN.

An introduction to experimentation with biochemical systems, processes, and compounds of biochemical importance; identification and quantitative measurements of such constituents and of biological transformations.

419. Plant Physiology. Lectures three hours, laboratory four hours; four credits each semester. Prerequisites: Chemistry 201, 202; Biology 101, 102. MR. MATHES.

Mechanisms of absorption, translocation, synthesis and utilization of materials. The role of internal and external factors in plant growth.

420. Senior Seminar. Both semesters; one credit each semester. STAFF.

Discussions by the faculty and advanced students of contemporary problems in biology. Seniors will be required to prepare and to present papers. Guest lecturers will present occasional seminars.

495-496. Honors. Both semesters; hours to be arranged; six credits.
STAFF.

Honors is independent study for superior students in Biology. It consists of readings in the field of the student's interests with emphasis on the original literature, the preparation and presentation of an Honors Essay based on the student's own research, and satisfactory completion of a comprehensive examination in the subject area of the research. Enrollment would ordinarily be for both semesters of the senior year for three credits per semester.

MASTER OF ARTS DEGREE IN BIOLOGY

Requirements for the Degree of Master of Arts in Biology

The candidate for the degree of Master of Arts in Biology must meet the following requirements in addition to the general requirements on page 108.

1. After consultation with the Biology Department, the student may be required to take undergraduate courses in which his preparation is considered inadequate.
2. The student must demonstrate a reading knowledge of either French, German or Russian, in the subject matter of Biology.
3. Each graduate student shall have a major Professor and Graduate Committee who will be responsible for supervising his thesis and for planning his program.
4. Each candidate must complete an oral comprehensive examination covering his thesis, his major subjects, and matters of general nature pertaining to his field of study. This comprehensive examination shall be given only after the thesis has been submitted to and approved by the examining committee and only after the 24 semester credits have been completed, or in the semester in which these credits will be completed.
5. A minimum residence period of one calendar year is required.
6. In addition to Biology 560 (Thesis), the candidate must successfully complete 24 semester hours of courses, of which at least one-half are in courses numbered 500 or above, with a grade

average of "B" or better. Upon the approval of his graduate committee, a student may take advanced courses in the Departments of Chemistry, Physics, Mathematics, Psychology and Marine Science. All courses below the 500 level taken for graduate credit must be completed with a grade of "B" or better.

GRADUATE COURSES

502. Experimental Plant Ecology. Second semester, alternate years; lecture two hours, laboratory six hours; four credits. Prerequisites: Plant Physiology and Plant Taxonomy, or consent of instructor. Recommended: Genetics and General or Plant Ecology. MR. WARE.

Consideration of environmental factors, and responses of plants to them, as they affect species abundance and distribution, natural selection, and plant community structure.

504. Advanced Invertebrate Biology. Second semester; lectures two hours; two credits. Prerequisite: A course in Invertebrate Biology. MISS MANGUM AND MR. VAN WINKLE. Offered on demand.

Discussion and readings of current research in Invertebrate Biology.

505. Topics in Cell Biology. First semester; lectures three hours; three credits. MR. BLACK.

508. Zoogeography. Each semester; lectures three hours; three credits. MR. TERMAN.

509. Topics in Genetics. First semester; lectures three hours; three credits. Prerequisites: A course in general genetics; chemistry and statistics are strongly recommended. MR. GRANT.

Biology 510. Biosystematics. Second semester; lectures three hours; three credits. Prerequisite: Recommended course in Taxonomy and in Genetics or evolution. MR. HALL.

511. Ecology of Natural Populations. Either semester; lectures three hours; three credits. Prerequisites: A course in Ecology and a course in Psychology. MR. TERMAN.

512. Concepts of Synecology. Second semester, alternate years; lectures three hours; three credits. Prerequisites: Plant Taxonomy and General or Plant Ecology, or consent of instructor. MR. WARE.

A survey of historical and modern concepts of the structure, development, and dynamic nature of natural communities; discussions of the origin and history of climax communities of North America.

514. Topics in Evolution. First semester; lecture and discussion, three hours; three credits. MR. BROOKS.

515. Chemical Regulation of Plant Growth. Second semester 1970, and in alternate years thereafter; lectures two hours, laboratory three hours; three credits. Prerequisites: Chemistry 201, 202; Biology 101, 102. MR. MATHES.

The control of plant growth and development as influenced by a number of artificial and natural growth regulators. Various aspects of plant growth are discussed with emphasis on the mode of action of regulatory materials.

516. Radiation Biology. First semester; lectures two hours, laboratory four hours; three credits. Prerequisites: General Chemistry, Physics, and Cytology or their equivalents. STAFF.

517. Problems in Biology. Either semester; hours and credits to be arranged. STAFF.

518. Comparative Endocrinology. First semester, alternate years; lectures two hours; laboratory variable. Prerequisites: General Endocrinology or permission of the instructor. MR. CALLARD.

A study of the evolution of endocrine systems in both vertebrates and invertebrates. The role of hormones in the control of homeostatic mechanisms, metabolism and reproduction will be examined with particular respect to ecological adaptation and the evolution of the species.

519. Herpetology. First semester¹; lectures two hours, laboratory six hours; four credits. Prerequisite: consent of the instructor. MR. BROOKS.

A study of the taxonomy, ecology and zoogeography of the reptiles and amphibians of the world.

520. Comparative Animal Physiology. (Jointly with Marine Science 520). Second semester; lectures three hours; three credits.

¹ Offered on demand.

Prerequisite: acceptable course in physiology. MISS MANGUM AND MR. VAN WINKLE.

522. Comparative Animal Physiology Laboratory. (Jointly with Marine Science 522.) Second semester; laboratory four hours; two credits. Prerequisite or corequisite: Biology 520. MISS MANGUM AND MR. VAN WINKLE.

524. Design of Experiments. Second semester; lectures three hours; three credits. Prerequisite: Biology 417 or equivalent. MR. VAN WINKLE. Offered in alternate years.

Fundamental principles of experimental design; nested, block, and factorial designs; expected mean squares; confounding; response surface methodology.

526. Chemical Embryology of Selected Invertebrates. Lectures ten hours, laboratory 20 hours per week. Four hours credit. Prerequisite: Biology 405 or 414 or equivalent. MR. BLACK. (Summer only, 5 weeks.)

Biochemical phenomena associated with oögenesis, fertilization, cleavage and latter development will be studied.

527. Topics in Plant Physiology. Second semester; lecture and laboratory to be arranged; four credits. Prerequisites: Biology 101, 102 and Chemistry 201, 202. MR. MATHES.

Selected topics in plant physiology with emphasis on the environmental factors which influence the growth of plants.

528. Experimental Biochemistry II. Second semester; laboratory nine hours; three credits. Prerequisites: Biology 414, 418 or the equivalent, and the consent of the instructor. MR. VERMEULEN. (Taught on demand.)

Advanced experiments on the isolation, purification, and analysis of biological material. Methods of studying constituents of biological systems; their degradation and characterization of intermediates.

560. Thesis. Hours to be arranged. STAFF.

Chemistry

PROFESSORS TYREE (*Head of the Department*) AND ARMSTRONG. ASSOCIATE PROFESSORS DJORDJEVIC¹, HILL, KEIFER AND MACQUEEN. ASSISTANT PROFESSORS BILINSKI, BURNS, SCHIAVELLI, AND THOMPSON.

REQUIREMENTS FOR CONCENTRATION

The minimum number of semester credits required for concentration in chemistry (except for pre-medical students) is 35 and must include Chemistry (101, 102) or (115); 201, 202; 301, 302; 303. German, French or Russian is to be taken in satisfaction of the foreign language distribution requirement. A reading knowledge of German is highly desirable. It is strongly urged that Chemistry 201, 202 be taken in the sophomore year.

SPECIAL CONCENTRATION PROGRAM

I. PROFESSIONAL TRAINING

The Department is listed among those approved by the Committee on Professional Training of the American Chemical Society and those graduates who have met certain minimum standards established by this Committee may be certified to the Society for recognition by them as having received undergraduate professional training in chemistry. To meet these standards this concentration program must include Mathematics 201, 202; Physics 101, 102; and a reading knowledge of scientific German. The required courses in chemistry will be chosen in consultation with the Head of the Department.

II. PREPARATION FOR MEDICINE, DENTISTRY, AND PUBLIC HEALTH

The minimum number of semester credits for pre-medical students concentrating in chemistry is 30. This program must include Chemistry (101, 102) or (111, 112); 201, 202; 303.

DESCRIPTION OF COURSES

101, 102. Elementary General Chemistry. Continuous course;

¹ Visiting Associate Professor, 1968-69.

lectures three hours, laboratory four hours; four credits each semester. MR. TYREE AND MRS. TARLETON.

An introduction to the study of the common non-metallic and metallic elements with emphasis upon chemical laws and the development and application of chemical principles.

115. Principles of Chemistry. First semester; lectures three hours, laboratory four hours; four credits. STAFF.

For exceptionally well prepared students. Covers the subject matter of Chemistry 101, 102 in one semester.

201, 202. Organic Chemistry. Continuous course; lectures three hours, laboratory five hours; four credits each semester. Prerequisites: Chem. 102 or 115. MR. HILL.

Chemistry of the various organic functions. Reactivity is correlated with electronic and three-dimensional aspects of compounds of carbon.

301. Physical Chemistry I. First semester; lectures three hours, laboratory four hours; four credits. Prerequisites or corequisite: Chem. 303; prerequisites: Physics 102 and Math 202. MR. MACQUEEN.

States of matter, thermodynamics, chemical equilibrium.

302. Physical Chemistry II. Second semester; lectures three hours, laboratory four hours; four credits. Prerequisite: Chem. 301. MR. MACQUEEN.

Electrochemistry, chemical kinetics, quantum chemistry, and photochemistry.

303. Quantitative Analysis I. First semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Chem. 102 or 115. MR. ARMSTRONG.

Volumetric and gravimetric analysis.

304. Quantitative Analysis II. Second semester; lectures two hours; laboratory six hours; four credits. Prerequisite: Chem. 303. MR. ARMSTRONG.

(Students registering for Chem. 302 are advised to elect Chemistry 404 rather than Chemistry 304.)

Colorimetric analysis with an introduction to absorption spectroscopy; standard methods of analysis; separation of mixtures; organic reagents for trace analysis of metals; introduction to electrometric methods of analysis.

305. Descriptive Inorganic Chemistry. First semester; lectures three hours; three credits. Prerequisite: Chem. 102 or 115. MR. THOMPSON.

Systematic study of the properties and reactions of chemical elements and their inorganic compounds.

401. Physical Chemistry III. First semester; lectures three hours; three credits. Prerequisite: Chem. 302. MR. BURNS.

Kinetic theory of gases, chemical statistics, and related topics.

402. Theoretical Inorganic Chemistry. Second semester; lectures three hours; three credits. Prerequisite: Chem. 302. MRS. DJORDJEVIC.

Principles of physical chemistry and quantum mechanics applied to the study of the structures and reactions of inorganic substances.

404. Instrumental Methods of Analysis. Second semester; lectures two hours, laboratory six hours; four credits. Prerequisites: Chem. 302, 303. MR. THOMPSON.

Principles and applications of modern instruments in UV and IR spectroscopy, potentiometry, voltametry, vapor phase chromatography, and radiochemistry.

407. Qualitative Organic Analysis. First semester; lecture one hour, laboratory six hours; three credits. Prerequisites: Chem. 201, 202. MR. SCHIAVELLI.

A study of a systematic method of identification of organic compounds with application of the method to individually assigned samples.

408. Physical Organic Chemistry. Second semester; lectures three hours; three credits. Prerequisite: Chem. 202, 302 or equivalent. MR. SCHIAVELLI.

Application of physical theories to organic reactions. Electronic and

steric effects of organic molecules are discussed as a means of predicting their chemical properties.

†409. Introduction to Chemical Research. Any semester; hours to be arranged; credits according to the work accomplished. STAFF.

A course for the advanced student affording an opportunity for individual work on an assigned problem.

MASTER OF ARTS DEGREE IN CHEMISTRY

Admission and Requirements

In addition to meeting those requirements for admission to graduate study as outlined on pp. 94-95 and for the degree of Master of Arts (p. 108), a candidate for the degree of Master of Arts in Chemistry

- a) shall make a selection of graduate courses under the guidance of a departmental advisor; undergraduate courses may have to be taken or repeated in those areas where adequate preparation appears to be lacking;
- b) must attend the Graduate Seminar during each semester in residence;
- c) must demonstrate a reading knowledge, in the field of chemistry, in French, German, or Russian at least one semester prior to qualifying for the degree;
- d) must acquire at least twelve semester credits (with a minimum of six credits in chemistry) in 500 level courses;
- e) must prepare a thesis based upon research carried out under the guidance of a staff member;
- f) must pass a comprehensive examination based upon the entire work done for graduate credit and after approval of the thesis by an examining committee.

GRADUATE COURSES

501. Quantum Chemistry. First semester; lectures three hours; three credits. Prerequisite: Chem. 401 or equivalent. MR. BURNS.

502. Advanced Physical Chemistry. Second semester; lectures three hours; three credits. Prerequisite: Chem. 401 or equivalent. MR. BURNS.

503. Nuclear Chemistry. First semester; lectures three hours; three credits. Prerequisite: Chem. 402 or equivalent. MR. KIEFFER.

504. Radiation Chemistry. Second semester; lectures three hours; three credits. Prerequisite: Chem. 503 or equivalent. MR. KIEFFER.

505. Advanced Analytical Chemistry. First semester; lectures two hours; laboratory four hours; three credits. Prerequisite: Chem. 404 or equivalent. MR. ARMSTRONG.

506. Atomic and Molecular Spectra. Second semester; lectures three hours; three credits. Prerequisite: Chem. 501 or equivalent. MR. BURNS.

507. Advanced Organic Chemistry. First semester; lectures three hours; three credits. Prerequisite: Chem. 202; corequisite: Chem. 407. MR. HILL.

508. Topics in Organic Chemistry. Second semester; lectures three hours; three credits. Prerequisites: Chem. 201, 202. STAFF.

510. Graduate Seminar. Both semesters; one credit each semester. (A maximum of three credits may be earned in seminar. May not be counted toward the minimum of six credits in 500 courses in chemistry.)

560. Thesis. Either semester; hours to be arranged. STAFF.

Economics

ASSOCIATE PROFESSORS SCHIFRIN (*Head of the Department*), CHOI, GARRETT, AND MATTHEWS. ASSISTANT PROFESSORS BARRY, COUSINS, AND SIMPSON. INSTRUCTOR SIDERS.

REQUIREMENTS FOR CONCENTRATION

Concentration in Economics requires a minimum of thirty semester hours of courses in Economics beyond Economics 201, 202. All concentrators are required to take the following courses for a total of fifteen hours:

- 303 Intermediate Analysis: Microeconomics
- 304 Intermediate Analysis: Macroeconomics
- 307 Principles and Methods of Statistics
- 311 Money and Banking
- 494 Senior Seminar

Economics 303, 304 and 311 are to be taken in the Junior year. Economics 307 can be taken any time after the Freshman year and before the second semester of the Senior year. The student who elects 495, 496 will normally not enroll in 494. Exceptions must be approved by the Department Chairman.

In addition, eighteen hours of electives are to be taken within the department in accordance with the following pattern: two courses in each of two fields, shown below, and one course in each of two other fields.¹ The Senior Seminar (Economics 494) will be in one of the first two fields as selected by the concentrator and subject to departmental approval. Concentrators are encouraged to develop a strong background in mathematics and to take electives in the other social sciences and history.

Fields of Study

Monetary Theory and Cyclical Analysis	311, 412, 413
Public Finance and Fiscal Policy	421, 422
Quantitative Analysis and Methods	333

¹ Economics 311 may be counted as one of the field electives.

Economic History and History of					
Economic Thought	440,	441,	442,	444,	446
Labor			451,	452	
Industrial Organization and Public Policy			461,	462	
International Economics			471,	472,	473
Comparative Economics Systems			482		

DESCRIPTION OF COURSES

201, 202. Principles of Economics. Continuous course; lectures three hours; three credits each semester. This course is a prerequisite to all courses in Economics except 307. **STAFF.**

An introduction to the analytical tools commonly employed by economists in the study of the determination of the composition of output, prices, and the aggregate level of economic activity. Problems related to these subjects are considered, and alternative courses of public policy are evaluated.

303, 304. Intermediate Economic Analysis. Continuous course; lectures three hours; three credits each semester. Prerequisites: Econ. 201, 202. **MR. BARRY.**

The first semester is devoted to the advanced analysis of the operation of the market price system in the general areas of value and distribution theory. The second semester is devoted to the advanced analysis of the measurement of national income, employment, the price level, and economic growth.

307. Principles and Methods of Statistics. Both semesters; lectures two hours, laboratory two hours; three credits. **MR. GARRETT.**

A study of the principles and uses of frequency distribution, measures of central tendency and dispersion, statistical inference, sampling, correlation and regression analysis.

311. Money and Banking. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. **MR. MATTHEWS.**

An analysis of the institutional framework of the monetary system with emphasis on the evolution of money and money systems and the development of commercial and central banking. Attention is given to the role of monetary affairs in the public policy area.

333. Quantitative Analysis. First semester; lectures two hours, laboratory two hours; three credits. Prerequisites: Econ. 201, 202, 307. MR. GARRETT.

A study of specific statistical techniques including chi-square, analysis of variance, and multiple regression analysis. In addition the following special topics will be considered: application of regression analysis to econometric models, input-output analysis, an introduction to linear programming, and an introduction to game theory as it applies to the theory of the firm.

412. Monetary Theory. Second semester; lectures three hours; three credits. Prerequisite: Econ. 311. MR. MATTHEWS.

This course is concerned with monetary theory and its application to policy measures. Areas of study will include the relation of the money supply to the rate of interest and employment, the relationship between monetary and fiscal policies, and international monetary relations. Where applicable attention is given to the evolution of monetary theory as an aspect of the history of economic thought.

413. Business Cycles and Forecasting. First semester; lectures three hours; three credits. Prerequisites: Economics 201, 202, 303, 304, 311, or permission of instructor. MR. MATTHEWS.

An examination of the nature, measures and causations of economic fluctuations as experienced by the United States with special emphasis on recent experiences. The course examines modern theories of economic growth and their relationships to business cycles, and the role of forecasting and monetary-fiscal policy in promoting economic stability.

421. Public Finance. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304, or permission of instructor: MISS SIMPSON.

Analysis of governmental expenditures, revenues and debt systems with emphasis upon their economic effects and their relationships to principles of economic welfare. The course focuses attention on recent proposals of fiscal reforms in the United States in the light of the objectives of full employment, economic growth and price stability.

422. Fiscal Policy. Second semester; lectures three hours; three credits. Prerequisites: Econ. 421. MISS SIMPSON.

The economic background, rationalization and evolution of fiscal policy is examined. A critical evaluation of the alternative approaches of government finance is presented and special emphasis is given to the instruments, problems and applications of fiscal policy. The relationship between monetary and fiscal policy is also examined.

440. Economic History of the Western World. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, or permission of instructor. MR. COUSINS.

A study of the development of the market and semi-market economies of the western world from preindustrial times through the early industrial periods. Also included is a comparative study of the growth of these economies through the nineteenth and twentieth centuries.

441. American Economic History. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, or permission of instructor. MR. COUSINS.

A study of the growth of the American economy from the colonial period to the present. Special emphasis is placed on the use of quantitative methods in the study of economic history.

442. Mobility in American Life. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, or permission of instructor. STAFF.

An analysis of the American past which focuses upon immigration, settlement, urbanization, and social mobility as the major expressions of economic and social change.

444. Regional Economic Growth and Planning: Emphasis on the South. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, or permission of instructor. MR. GARRETT.

A study of regional economic development with emphasis on Southern industrial growth. In addition to an analysis of the South as a region, the course includes an analysis of systems of cities, metropolitan areas and small urban areas both as separate regions and their role in the contemporary growth of larger regions. Models of regional growth, and institutionalism are combined to provide a better perspective for regional planning.

446. History of Economic Thought. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304. MR. COUSINS.

A survey of the development of economic thought from the period of Aristotle to the present with particular emphasis on doctrines reflected in modern economic thought.

451. Labor Economics. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. STAFF.

A study of public policy in labor-management relations, with special emphasis upon contemporary problems such as: emergency dispute settlement; automation; union growth; and wage-price guide-lines.

452. American Labor History. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, or permission of instructor. STAFF.

An analysis of the growth of American unionism which examines the sources of growth and non-growth, and the roles of leadership and ideology, among other things. An effort is made to relate organized labor's growth to changes in the larger American environment.

461. Government and Business: The Enforcement of Competition. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. SCHIFRIN.

An analysis of the factors that influence and determine business conduct and market performance. Special emphasis is given to the philosophy and features of the anti-trust laws and to the enforcement of market competition through their application.

462. Government Regulation of Business. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. SCHIFRIN.

An analysis of the principles and purposes of government regulation of business in certain sectors of the economy where competition may not be workable, including public utilities, transportation, agriculture, defense procurement, and scientific research and development.

471. International Economics. First semester; lectures three hours; three credits. Prerequisites: Econ. 311 or permission of instructor. MR. MATTHEWS.

This course develops the theory of international trade from the Mercantilists to the modern economists. The objective is to give the student basic knowledge of analytical tools used by economists in the study of international economic problems.

472. International Trade and Policies. Second semester; lectures three hours; three credits. Prerequisites: Econ. 471 or permission of instructor. MR. MATTHEWS.

This course analyzes historically problems in tariffs and other protectionist devices, the effect of economic development on the pattern of world trade, and problems in balance of payments equilibrium, foreign exchange, and international finance. Particular attention is focused on international economic developments since World War II.

473. Economic Growth and Development. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304 and 307, or permission of instructor. MR. COUSINS.

A quantitative approach to the problems of economic growth and an analysis of the factors contributing to economic growth. Attention is given to the relation of western experience to developing countries.

482. Comparative Economic Systems. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. MR. COUSINS.

Primarily a study of the development and present structure of the Soviet economy, with comparative analysis of the Soviet and Western experiences.

490. Topics in Government and Economic Policy. Both semesters; lectures three hours; three credits. Prerequisites: Concentration in Economics, Senior standing, and permission of instructor. STAFF.

Topics in Government and Economic policy. (Same as Government 490.)

494. Senior Seminar. Second semester; three credits. Required of all seniors concentrating in Economics. STAFF.

The course attempts (a) to integrate information acquired in previous courses; (b) to develop broader insights into critical issues of public policy; (c) to create a scale of priorities regarding the alternative approaches toward these issues; (d) to improve skills in defending orally

and in writing points of view once taken; and (c) to acquaint students with the various sources of professional literature in economics. Frequent reports and extensive readings are required.

495, 496. Honors. Continuous course; hours to be arranged; three credits each semester. **STAFF.**

Advanced study on a tutorial basis the first semester. In the second semester each student undertakes independent research on a selected topic and presents an Honors Essay. Each Honors student is responsible for (a) the supervised reading of a selected list of books in economics; (b) satisfactory completion by May 1 of an original essay, or other scholarly project in the field of economics; and (c) satisfactory performance on a comprehensive oral examination. Honors students are not required to take Economics 494. Credit in Economics 495 does not depend on the completion of the rest of the Honors Program. A student who withdraws from the Honors program at the end of the first semester must take Economics 494 the second semester. A student who completes the Honors Essay but does not achieve Honors may be given credit for Economics 494.



English Language and Literature

PROFESSORS NEIMAN (*Head of the Department*), DAVIDSON, DOLMETSCH, EVANS, JENKINS, McCULLEY, AND SMITH. ASSOCIATE PROFESSORS DAVIS AND WILLIS. ASSISTANT PROFESSORS BALL, CONLEE, DONALDSON, ELIOTT, FEHRENBACH, LABRIOLA, LIEB, MACCUBBIN, NETTELS, AND SCHOLNICK. INSTRUCTORS ANDREWS, BLASING, FREEMAN, GREEN, GUERNSEY, KNOTT, MALONEY, MASON, MACDONALD, MCGAVRAN, RABINOWITZ, WALKER, AND WILLIAMS.

REQUIREMENTS FOR CONCENTRATION

A concentration in English requires 30 credits in courses beyond the distribution requirements in literature. These distribution requirements must be satisfied by English 101-102 and English 201-202 or Humanities 201-202.¹

To ensure a balanced and representative program a concentrator must include, in his total of 30 credits, courses in designated areas, periods, and types of literary study. Specifically his program must contain:

- I. A minimum of five courses (15 credits) in English or American literary (409 to 463), of which at least three courses (9 credits) must be in English literature (409 to 452). These five courses shall include:
 - a. Two courses (6 credits) in one of the following combinations, representing the study at length of the literature of a period or genre: 409-410, 412-413, 423-424, 429-430, 431-432, 439-440, 441-442, 461-462, 462-463.
 - b. Two courses (6 credits) in English literature before 1660 (409 to 429). Only one course (3 credits) in Shakespeare (421 or 422) may be counted for this requirement. The combinations 409-410 or 423-424 will satisfy requirements (a) and (b) simultaneously.
 - c. One course (3 credits) in Chaucer, Shakespeare, or Milton

¹ Students will normally complete the distribution requirements before beginning any 300 courses in English.

(413, 421, 422, or 426). Any one of these courses will satisfy half of requirement (b) simultaneously.

- II. One course (3 credits) in a seminar taken during the senior year. (Candidates for departmental honors, who must in addition take English 495, 496, will normally meet their seminar requirement in the second half of their junior year by enrolling in English 396.)
- III. Remaining courses (for a total of 30 credits) selected from the department's offerings in accord with the concentrator's interests and vocational expectations.¹

DESCRIPTION OF COURSES

001, 002. A Study of English as a Second Language. Continuous course; lectures three hours; no credit. MR. LABRIOLA.

This course is designed for foreign students who have difficulty with oral and written expression. It is intended to improve the student's pronunciation, understanding of grammar and syntax, and reading comprehension. There are graded readings in the sciences and the humanities.

101, 102. Composition and Literature. Continuous course; lectures three hours; three credits each semester. STAFF.

The course aims to develop (1) the student's ability to use expository prose as an instrument of thought and expression, and (2) his understanding of the nature of literature and his ability to read with accuracy and judgment. The course emphasizes close reading and discussion, orally and in writing, of works illustrative of some major literary genres.

†101H, 102H. Composition and Literature. Continuous course; lectures three hours; three credits each semester. STAFF.

English 101H, 102H is designed for the student with better than usual preparation. In general the course covers the same range as English 101, 102. The readings, class discussion, and writing continu-

¹English 209 or English 301, English 304, and one semester in American Literature are required for the Virginia Collegiate Professional Teaching Certificate in English.

ously emphasize the development of critical skills. Students are assigned by the Department of English to English 101H, 102H on the basis of the records submitted to the Dean of Admissions. This course satisfies the distribution requirement.

201, 202. English Literature. Continuous course; lectures three hours; three credits each semester. STAFF.

A survey of English literature, with collateral readings, discussions and reports.

†201H, 202H. **Survey of English Literature.** Continuous course; lectures three hours; three credits each semester. STAFF.

English 201H, 202H is designed for the student of unusual proficiency. Admission to these sections is by recommendation of the coordinator of sophomore English. The course satisfies the distribution requirement.

209. Composition. Both semesters; lectures three hours; three credits. STAFF.

This course provides counsel on principles of writing and practice in writing different kinds of papers. Expository writing is stressed, but there is opportunity for creative writing. Because of limited enrollment and frequent individual conferences, students obtain the individual attention necessary to develop their writing abilities. The course also provides opportunity for student criticism of writing.

301. Critical Reading and Writing. Both semesters; lectures three hours; three credits. MR. MACCUBBIN AND MR. RABINOWITZ.

A study of contemporary critical approaches to literature, the close reading of selected works of literature, and the application of theory through the writing of critical papers. Five generally recognized approaches to criticism will be discussed: moral, sociological, psychological, archetypal, and textual or verbal criticism.

303. History of the English Language. Both semesters; lectures three hours; three credits. MR. BALL AND MR. CONLEE.

A study of the history of the English language from Anglo-Saxon to the present. Some attention is given to American English and English linguistics.

304. Modern Grammar. Both semesters; lectures three hours; credits three hours. MR. BALL, MR. CONLEE, AND MR. MALONEY.

A general survey of the development of English grammar and language with particular emphasis on modern grammar and syntax.

***305, 306. Advanced Writing.** Continuous course; lectures three hours; three credits each semester. MR. JENKINS.

The course is intended for the student who has demonstrated some talent for creative writing. He is encouraged to develop his individual interests and creative capacities. Extensive practice in the several types of writing. The course is conducted as a seminar; manuscripts are read and criticized informally by members of the class.

307. Major American Authors. Both semesters; lectures three hours; three credits. MISS NETTELS AND MR. SCHOLNICK.

A study of six major American writers of the nineteenth and twentieth centuries. This course is especially designed for students who plan to take one semester only of American literature.

381. Epic and Romance. First semester; lectures three hours; three credits. MR. LIEB.

Classical, medieval, and renaissance epic and romance with special emphasis on Vergil and Dante, as well as those English and continental figures who share or serve to illuminate their tradition.

382. Aspects of the European Novel. Second semester; lectures three hours; three credits. MR. RABINOWITZ.

A study, with special reference to problems of form, of several novels of continental Europe, chiefly of the nineteenth and twentieth centuries.

+396. Junior Honors Seminar. Second semester; hours to be arranged; three credits. STAFF.

A study in depth of a limited literary topic, emphasizing student discussion and the preparation of critical papers. This course is restricted to concentrators planning to enroll in Senior Honors, and is a substitute for the required senior seminar.

408. Literary Criticism. Second semester; lectures three hours; three credits. MR. EVANS.

A survey of major texts in the tradition of literary criticism from Aristotle to modern times, tracing the history of critical concerns in relation to the history of ideas.

English 409. Old English. First semester; lectures three hours; three credits. MR. DAVIDSON.

An introduction to Old English, including elementary grammar and phonology and the reading of prose and short poems; collateral readings in the history and culture of the period.

English 410. Beowulf. Second semester; lectures three hours; three credits. MR. DAVIDSON.

Reading of *Beowulf* in Old English; collateral readings in criticism of the poem. Prerequisite: English 409 or the permission of the instructor.

412. Medieval Literature. Second semester; lectures three hours; three credits. MR. DAVIDSON.

A survey of Old and Middle English literature exclusive of Chaucer.

413. Chaucer. First semester; lectures three hours; three credits. MR. DAVIDSON AND MR. CONLEE.

A study of Chaucer's *Canterbury Tales* and *Troilus and Criseyde*.

421. Shakespeare. First semester; lectures three hours; three credits. MR. FEHRENBACH.

An intensive study of selected histories and comedies.

422. Shakespeare. Second semester; lectures three hours; three credits. MR. FEHRENBACH.

An intensive study of the major tragedies and the "problem" comedies.

423. The English Renaissance. First semester; lectures three hours; three credits. MR. EVANS.

A survey of English literature, excluding the drama, in the sixteenth century, with emphasis on the works of such contemporaries of Shakespeare as Raleigh, Marlowe, Sidney, and Spenser.

424. The Seventeenth Century. Second semester; lectures three hours; three credits. MR. EVANS.

A survey of the poetry and prose of the first half of the seventeenth century, with emphasis on the work of Ben Jonson, Herrick, Donne and the Metaphysical poets, and Sir Thomas Browne.

426. Milton. Second semester; lectures three hours; three credits. MR. LIEB.

An intensive study of Milton's poetry and prose, with due attention to the religious, political, and literary milieu in which Milton wrote.

429. English Drama to 1642. First semester; lectures three hours; three credits. MR. McCULLEY.

A study of drama in England, including conventions and currents of ideas, from the origins to the closing of the theatres in 1642, with emphasis on the works of Christopher Marlowe, Ben Jonson and John Webster.

430. English Drama since 1660. Second semester; lectures three hours; three credits. MR. McCULLEY.

A study of English drama from 1660 to the present, with emphasis on Restoration comedy and dramatists from Shaw to the present; related continental plays, particularly those of Ibsen, will be studied. Intellectual implications and critical analysis of texts will be stressed.

431. English Literature, 1670-1744. First semester; lectures three hours; three credits. MR. MACCUBBIN.

Poetry, prose, and drama of Wycherley, Congreve, Dryden, Pope, Swift, Gay, and Fielding, with emphasis on satire and the cultural milieu.

432. English Literature, 1744-1798. Second semester; lectures three hours; three credits. MR. MACCUBBIN.

Poetry of Thomson, Collins, Gray, Smart, and Cowper, with emphasis on the history of ideas; and the works of Dr. Johnson and his circle, especially Goldsmith, Reynolds, Gibbon, and Boswell.

439. English Novel to 1832. First semester; lectures three hours; three credits. MR. SMITH.

Survey of the development of English prose fiction from its beginnings in the Elizabethan period through the novels of Austen.

440. English Novel, 1832-1900. Second semester; lectures three hours; three credits. MR. SMITH.

Survey of the English novel from Dickens to the early twentieth century.

441. The Romantic Period, 1798-1832. First semester; lectures three hours; three credits. MR. NEIMAN.

Dominant ideas and conventions of English romanticism as expressed through major poets and critics of the period, especially Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

442. The Victorian Age. Second semester; lectures three hours; three credits. MR. NEIMAN.

Emphasis is on the intellectual crises of the age as expressed primarily by leading poets and essayists from Carlyle to Hardy.

451. Modern Poetry. First semester; lectures three hours; three credits. MR. MALONEY.

Modern English and American poetry and its development, with reading, interpretation and discussion of the verse of Yeats, Pound, Eliot, Auden, Stevens, Thomas, and others.

452. Modern Fiction. Second semester; lectures three hours; three credits. MR. JENKINS AND MISS NETTELS.

Reading, analysis and discussion of the principal American and British fiction writers from 1890 to the present, chosen to illustrate contemporary tendencies in matter and technique.

461. American Literature to 1850. Both semesters; lectures three hours; three credits. MR. DOLMETSCH AND MISS NETTELS.

The development of the American literary tradition from 1607 to 1850, emphasizing the chief writers and the characteristic themes and forms of their work.

462. American Literature, 1850 to 1900. Both semesters; lectures three hours; three credits. MR. DAVIS.

A continuation of English 461. The American literary tradition from Transcendentalism to realism.

463. American Literature since 1900. Both semesters; lectures three hours; three credits. MR. DAVIS AND MR. DONALDSON.

A continuation of English 462. The American literary tradition during the Twentieth Century. Considerable attention is given to developments in the drama.

†475. **Senior Seminar in English.** Both semesters; seminar three hours; three credits. STAFF.

A study in depth of a limited literary topic. Students will write and present papers for critical discussion. Open only to seniors.

HONORS STUDY

†495, 496. **Honors.** Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in English will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading in the field of the student's major interest; (b) the preparation and presentation by May 1 of an Honors Essay based on the student's own research; and (c) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.

Fine Arts

PROFESSORS THORNE (*Head of the Department*), NEWMAN AND ROSEBERG. ASSISTANT PROFESSORS COLEMAN AND KORNWOLF. LECTURERS GRAY AND HOUGHLAND.

REQUIREMENTS FOR CONCENTRATION

Students concentrating in Fine Arts must take Fine Arts 201, 202, or 201H, 202H, 401, 402, or 495, 496, and a minimum of 24 additional credits in the Department. A maximum of 21 technical and a total of 42 credits is allowed in a subject field or department.

SPECIAL PROGRAMS OF STUDY

- I. History of Art: Fine Arts 304, 305, 404, 405, 406, 407; one other course in Fine Arts should be included.

NOTE: Students who contemplate graduate work in the History of Art or the History of Architecture should have upon graduation a reading knowledge of either German or French. It is further urged that they plan to take advanced courses in either History or English Literature.

- II. Architecture: Fine Arts 211, 212, 213, 214, 313, 314, 405.

NOTE: Students who contemplate professional work in Architecture should take Physics 101-102 and one year of the Calculus.

- III. Sculpture: Fine Arts 211, 212, 215, 216, 304, 317, 318, 404, 407.

- IV. Painting: Fine Arts 211, 212, 306, 315, 316, 404, 406, 410, or 415, 416.

- V. Teaching of Art: Fine Arts 211, 212, 215, 216, 315, 331, 421, 422.

NOTE: Fine Arts 211-212 or the equivalent will be required as a prerequisite for all studio courses.

DESCRIPTION OF COURSES

201, 202. Introduction to the Arts. Continuous course; lectures three hours; three credits each semester. STAFF.

The development of architecture, sculpture, and painting from the earliest times to the present day. Open to freshmen with the permission of the Chairman.

201H, 202H. Introduction to the Arts. Sophomore honors course. Continuous course; lectures, readings, and seminar three hours; three credits each semester. MR. NEWMAN.

211, 212. Elementary Drawing. Continuous course; studio six hours; three credits each semester. MR. COLEMAN.

A creative experience in learning to see with emphasis on the visual elements of design, including composition, line, pattern, form and in the second semester, the use of color. A preparatory course for further work in architecture, sculpture, painting and graphics.

213, 214. Introduction to Architecture. Continuous course; studio six hours; three credits each semester. MR. HOUGHLAND.

The first semester involves the development of a basic vocabulary for architectural design: drafting, perspective, shades and shadows, scale, and proportion.

The second semester further investigates the role of an architect with specific design problems and the development of presentation techniques.

***215, 216. Elementary Sculpture.** Continuous course; studio six hours; three credits each semester. MR. ROSEBERG.

A practical course in the use of the sculptor's tools and materials such as modelling in clay, plaster casting, and direct building in plaster, over a metal armature.

304. Art in the Ancient World. Second semester; lectures three hours; three credits. MR. ROSEBERG. (Not offered 1969-1970.)

305. Colonial American Architecture. Lectures three hours; either semester, three credits. MR. NEWMAN.

306. Colonial American Painting. Either semester. Lectures three hours; three credits. MR. THORNE.

307, 308. Art in the Modern World. Continuous course; lectures three hours; three credits each semester. MR. KORNWOLF.

Architecture, painting, and sculpture in the nineteenth and twentieth centuries. This course is designed for juniors and seniors who wish some understanding of the complex development of the visual arts since the revolutions of the late eighteenth century.

***313, 314. Architectural Design.** Continuous course, studio six hours; three credits each semester. MR. HOUGHLAND.

A course in architectural design introducing various design philosophies, the presentation of specific architectural problems developing methods, materials, composition and function for selected types of buildings.

***315, 316. Painting.** Continuous course; studio six hours; three credits each semester. MR. THORNE.

A course in creative expression using the various media of painting.

***317, 318. Advanced Sculpture.** Continuous course; studio six hours; three credits each semester. MR. ROSEBERG.

Compositions in relief and in the round, development of original designs from preliminary sketch to completed work in wood, plaster, stone, ceramics, or welded metal.

331. Principles of Functional Design. Both semesters; lecture one hour; studio six hours; three credits each semester. MR. THORNE.

Principles and methods of elementary school art. An introductory course in the design of ceramics, prints, plastics, painting, crayon work and other crafts.

***401, 402. Art and Twentieth Century.** Continuous course; lecture one hour; two hours seminar; three credits each semester. STAFF.

First semester lectures and seminar reports on modern painting, sculpture, and architecture. Second semester devoted primarily to seminar reports and research on special problems in contemporary painting, sculpture, and architecture.

404. Medieval Art. Second semester; lectures three hours; three credits. MR. NEWMAN.

History of the architecture, painting, and sculpture of the Middle Ages.

405. Renaissance and Baroque Architecture. Either semester; lectures three hours; three credits. MR. KORNWOLF.

A survey in depth of the major developments in European architecture from the fifteenth to the eighteenth centuries.

406. Renaissance Painting. Either semester; lectures three hours; three credits. MR. KORNWOLF.

A survey of European painting from 1300 to 1520.

407. Renaissance Sculpture. First semester; lectures three hours; three credits. MR. ROSEBERG. (Not offered 1969-1970.)

409, 410. Oriental Art. Continuous course; lecture three hours; three credits each semester. MR. ROSEBERG.

The first semester is devoted to the art, culture, and religious background of India, and includes the influences of Indian culture on other Asian countries such as Cambodia, Thailand, Java, and Tibet.

The second semester is a survey of the art and architecture of China and Japan.

†411. Problems in Fine Arts. Both semesters; hours to be arranged; credits according to work done. STAFF.

This course is for the advanced student and is arranged on an individual basis.

***415, 416. Advanced Painting.** Continuous course; studio six hours; three credits each semester. MR. THORNE.

Compositions in various media to be developed from original designs.

***421. Ceramics.** First semester; studio six hours; three credits. MR. COLEMAN.

An introduction to the procedures in ceramic art, including hand building, the use of the wheel, firing, and the making of glazes.

***422. Graphic Arts.** Second semester; studio six hours; three credits. MR. COLEMAN.

A course in the many ways of print making. The wood-cut, lino-block, etching, lithograph and serigraph will be studied.

***495, 496. Honors.** Continuous course; hours to be arranged; three credits each semester. MR. NEWMAN.

Students admitted to Honors Study in Fine Arts will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading and discussion in the area of the student's major interest, (b) the preparation and presentation by May 1 of either an Honor's Essay in the area of Art History or Criticism based on the student's own research or a major showing of the student's performance in studio work accompanied by a short essay justifying his work, and (c) satisfactory completion of a comprehensive examination in the area of the student's major interest.

NOTE: A student planning to take Honors in Fine Arts should begin in his junior year a special program of reading from a selected bibliography prepared by the Department.

All work produced by the students of the studio classes remains the property of the College of William and Mary until released by the appropriate faculty member in charge. The College will not be responsible for theft or damage to such works.

Geology

PROFESSOR BICK (*Head of the Department*). ASSOCIATE PROFESSOR GOODWIN. ASSISTANT PROFESSORS CLEMENT AND JOHNSON.

REQUIREMENTS FOR CONCENTRATION

1. For those students desiring an A.B. degree with a concentration in geology as preparation for law, business, government, or other nonprofessional application of geology (35-36 credits):
 - a. Geology 101, 102, 201, 202, 303, 401 or 402, 403, 404
 - b. Two of the following courses:
Geology 301, 302, 304, 401 or 402, 405, 406 (one of these courses must be Geology 301, or 302, or 406)

The student is expected to select electives in such fashion as to present a strong background in a subject area other than geology.

2. For those students desiring a B.S. degree who intend to continue geological studies or to engage in professional geological work upon graduation (37 credits):
 - a. Geology 101, 102, 201, 202, 301, 302, 303, 304, 406, 408, 411, 412
 - b. French, German, or Russian as fulfillment of the language distribution requirement.

DESCRIPTION OF COURSES

101, 102. Earth Processes. Continuous course; lectures three hours, laboratory three hours; four credits each semester. MR. GOODWIN AND STAFF.

The processes of the hydrologic and rock cycles, and their influence on the composition, structure, and evolution of the earth. Geologic processes such as weathering, erosion, rock genesis, and deformation are emphasized. Geologic principles and processes are treated within the broader context of interactions between the atmosphere, hydrosphere, and solid earth. Voluntary field trips.

101-H, 102-H. Earth Processes. Continuous course; lectures three hours, laboratory three hours; four credits each semester. MR. JOHNSON.

An introduction to geology for students in the General Honors program. Primary aims of the course are an exploration of what science is, how the scientist thinks, and how scientific thought evolves. Fewer topics are covered in greater depth as compared to Geology 101, 102. The course satisfies distribution requirements.

105. Physical Geography. Second semester; lectures three hours; three credits. MR. JOHNSON.

An introduction to physical geography encompassing descriptive climatology and descriptive geomorphology.

201, 202. Earth Materials. Continuous course; lectures three hours; laboratory three hours; four credits each semester. Prerequisite or corequisite: Chemistry 101, 102 or Chemistry 111, 112, or permission of the instructor. MR. CLEMENT.

Integrated subject matter of traditional crystallography, mineralogy, and petrology. First semester: fundamentals of crystal chemistry, structure, and symmetry; formation, composition, and behavior of silicate melts; mineral and rock genesis in the igneous environment. Second semester: physical and chemical processes of soil formation, aqueous precipitation, solid state reaction, and anatexis; mineral and rock genesis in sedimentary and metamorphic environments. The laboratory emphasizes techniques of hand specimen mineral and rock identification, offering an introduction to optical, DTA, and X-ray techniques. Field trips.

301. Sedimentation and Stratigraphy. First semester, alternate years; lectures three hours, laboratory three hours; four credits. Prerequisite: Geology 202. MR. JOHNSON.

The principles of formation, transport, and deposition of sediment and the interpretation of sedimentary rocks. Field trips.

302. Structural Geology. Second semester, alternate years; lectures three hours, laboratory three hours; four credits. Prerequisite: Physics 101. MR. GOODWIN.

Theoretical, experimental, and field study of deforming forces and their effects on earth materials. Field trips.

303. Historical Geology. First semester, alternate years; lectures

three hours; three credits. Prerequisite: Geology 102. MR. JOHNSON. (Not offered 1969-1970.)

The origin and evolution of the earth, including the forms of life that have inhabited it, through geologic time. North America is emphasized.

304. Quantitative Geologic Models. Second semester, alternate years; lectures three hours; three credits. Prerequisite or corequisite: Mathematics 202. MR. BICK. (Not offered 1969-1970.)

The probabilistic basis of geologic processes and its application to geologic hypotheses through quantitative testing of conceptual models.

401. Economic Geology of Nonmetals. First semester; lectures three hours; three credits. MR. GOODMAN.

The origin, distribution, production, and economics of fossil fuels and major industrial minerals and rocks. The relationship of non-metallic resources to the national interest and economy and to various aspects of national and international politics is emphasized.

402. Economic Geology of the Metals. Second semester; lectures three hours; three credits. MR. CLEMENT.

The origin, distribution, production, and economics of the ores of major metals. The relationship of ores and metals to the national interest and economy and to various aspects of national and international politics is emphasized.

403. History of Geology. First semester, alternate years; lectures three hours; three credits. MR. BICK.

The development of modern geologic thought, emphasizing the conceptual contributions of geology to Western thought, such as those giving rise to conflict over the origin and age of the earth, rather than technical contributions.

404. Geology of the United States. Second semester, alternate years; lectures three hours; three credits. MR. JOHNSON.

Descriptive stratigraphy, structure, physiography, and economic geology of the United States. Two weekends will be devoted to field trips.

405. Optical Petrography. First semester, alternate years; lectures two hours, laboratory three hours; three credits. Prerequisite: Geology 202. MR. CLEMENT. (Not offered 1969-1970.)

An introduction to the theory and use of the polarizing microscope.

406. Paleontology. Second semester, alternate years; lectures three hours, laboratory three hours; four credits. MR. JOHNSON. (Not offered 1969-1970.)

The role of fossils in the study of organic evolution, ancient environments, and time relations of rock sequences. The laboratory stresses invertebrate morphology, quantitative measurement, and interpretation of local fossiliferous rock units. Field trips.

408. Geologic Field Methods. Second semester, alternate years; laboratory three hours; one credit. STAFF. (Not offered 1969-1970.)

Description and sampling of sediments and rocks, and geologic mapping utilizing topographic maps, aerial photographs, and surveying instruments.

411, 412. Problems in Geology. Continuous course; lectures one hour (seminar); one credit each semester. Prerequisite: Senior standing. STAFF.

An exploration of geologic problems, either through a reading program and one class discussion each week or through a research project.

Geography

Those interested in geography can prepare themselves for further study in the field by selecting suitable courses from among the following while concentrating in a discipline allied to geography:

Physical Geography

Geology 105—Physical Geography

Economic Geography

Business Administration 309—World Resources

Geology 401—Economic Geology of Non-metals

Geology 402—Economic Geology of Metals

Human Geography

Anthropology 204—Cultural Anthropology

Sociology 349—Human Geography

Regional Geography

Anthropology 355—Ethnology of South America

Anthropology 358—Ethnology of Oceania

Anthropology 359—Ethnology of Southeast Asia

Anthropology 361—Ethnology of Africa



Government

PROFESSORS ROHERTY¹ (*Head of the Department*) AND MOSS. ASSOCIATE PROFESSORS EDWARDS, HAMILTON, AND KIM.¹ ASSISTANT PROFESSORS BAXTER, CURRY, GRAYSON, HOUSE, MARTIN, SMITH, AND WARD. INSTRUCTOR MCKNIGHT.

REQUIREMENTS FOR CONCENTRATION

The Government concentration consists of forty-two (42) credits of coherently related work selected by the student in consultation with his departmental advisor. Thirty-three (33) credits must be taken in the Department of Government. For concentrators Government 201, 202 (6 hours) is a prerequisite for all other Government courses except that students in the Sophomore Colloquia of the General Honors Program may, in some instances, obtain six (6) hours of distribution credit in Government. Each concentrator must do a minimum of three (3) hours of course work in each area of the Core Curriculum. At least three (3) hours of course work must be done at the 400 level. Concentrators are admitted to Honors in Government with the permission of the Department.

Nine (9) credits in related courses are required. With the exception of History 201, 202 all related work must be at the 300 or 400 level and have the approval of one's advisor. It is recommended that concentrators carry their foreign language study beyond the minimum requirement for distribution. Concentrators who wish to undertake a three-year program towards the Master of Arts degree must have the approval of the Department of Government at the beginning of the Senior Year.

THE CORE CURRICULUM

303-304. Survey of Political Philosophy

311-312. Comparative Government

323-324. International Relations

371-372. American Politics

¹ On leave of absence, 1968-1969.

DESCRIPTION OF COURSES

201, 202. Introduction to Government and Politics. Continuous course; lectures two hours, discussion-section one hour; three credits each semester. STAFF.

In the first semester the student is introduced to the nature of political problems and the operation of political institutions. Chief attention is given to the politics of the United States. In the second semester concerns of political science such as the relevance of political theory, political ideologies, state systems, and international relations are studied.

201H, 202H. Introduction to Government and Politics. Continuous course; lectures and discussion three hours; three credits each semester. STAFF.

This is a special section of Government 201, 202 planned for the special needs of honors students.

303, 304. Survey of Political Philosophy. Continuous course; lectures three hours; three credits each semester. MR. ROHERTY AND MR. SMITH.

The course is developed around two themes, the *classical tradition* and the *modern tradition* in political philosophy. In the first semester the political works of Plato and Aristotle are taken as the standards of the classical tradition. Selected works of medieval Christian writers are also included. Machiavelli and Hobbes define the *modern tradition* as this is taken up in the second semester. The works of Locke, Rousseau, and Burke complete the course.

305. Contemporary Political Philosophy. Either semester; lectures three hours; three credits. MR. MOSS, MR. ROHERTY, MR. SMITH.

An examination of the revival of political philosophy from the late nineteenth century to the present. Writers to be studied will include Nietzsche, Sorel, Freud, Weber, Lenin, Camus, Jaspers, Barker, Arendt, Tillich, Oakeshott, De Jouvenel, Dahl, Strauss, Voegelin.

311, 312. Comparative Government. Continuous course; lectures three hours; three credits each semester. MISS HAMILTON AND MR. GRAYSON.

A comparative study of institutions and processes of government. Historical, cultural, social and economic factors will be given considerable attention. In the first semester, countries of western Europe will be considered with emphasis on England and France. In the second semester, selected governments of non-western nations will be analyzed.

322. International Organization. Either semester; lectures three hours; three credits. MR. KIM.

A study of the development of the structures and procedures of international organization, and of the methods for pacific settlement of international disputes. Special attention will be given the League of Nations and the United Nations and the gains and failures of these organizations.

323, 324. International Relations. Continuous course; lectures three hours; three credits each semester. MR. WARD AND MR. MARTIN.

The first semester offers an analysis of such problems of international politics as elements of power, nationalism, imperialism, national security, diplomacy and international law and organization. The second semester is concerned with those factors which have had an impact on American foreign policy since the Second World War, such as the Cold War, the emerging nations of Africa and Asia, and regional developments particularly with respect to Europe. Attention is also given to the process of policy formation.

334. The Soviet Union. Either semester; lectures three hours; three credits. STAFF.

A study of the political and economic systems of the Soviet Union and an analysis of the historical roots of Russian political thought in relation to Marxism as interpreted by the Soviets. Attention will be given to Communism as a world movement.

336. The Far East. Either semester; lectures three hours; three credits. MR. MARTIN.

A survey of the national and international politics of China, Japan and Korea. After a preliminary view of Far Eastern political and social traditions, this survey examines the manner in which these countries responded to the Western impact. Major attention will be given to the government and politics of Communist China and post-war Japan.

337. Africa. Either semester; lectures three hours; three credits. MR. KIM.

A study of selected newly independent nations of Africa south of the Sahara. Emphasis will be placed on phenomena such as the rise of nationalism, the development of African party and governmental systems, and the role of Africa in international politics.

338. Latin American Politics and Government. Either semester; lectures three hours; three credits. MR. GRAYSON.

Political relations of the American nations in the nineteenth and twentieth century. Emphasis will be placed on the role of the United States in hemispheric affairs, on the development of Pan Americanism, and on the Organization of American States. Attention will be directed also toward the influence of Communism, labor, international law, and revolution on interstate behavior.

351. Public Organization and Management. Either semester; lectures three hours; three credits. MR. HOUSE.

The course emphasis is twofold: (1) how government work is organized and performed and (2) how organization and management interacts with personnel development. Examination of the uniqueness of the governmental work setting and the role of the professional public service in the political system. Analysis of various organization and management theories and practices. Case studies of government administration in action.

355. The Politics of States and Localities. Either semester; lectures three hours; three credits. MR. HOUSE.

The course emphasis is on both the policy process and the services of state and local governments. Policy Process Topics: Environmental, Legal and Intergovernmental Frameworks of Policy; Policy-making Centers and Leadership Patterns; Alternative Forms of State and Local Governments. Service Topics: Natural Resources; Transportation Policy Problems; Health and Education; Politics and the Poor; Crisis in Law Enforcement; Public Planning and Private Enterprise; Cities of the Future.

371, 372. American Politics. Continuous course; lectures three hours; three credits each semester. MR. CURRY AND MR. EDWARDS.

The political process at the national level, including such topics as organization and recruitment, governmental decision-making, relationships among departments, and political parties and leadership. The first semester is concerned with the executive and legislative branches; the Supreme Court is considered in the second semester.

373. American Civil Liberties. Either semester; lectures three hours; three credits. MR. CURRY.

This course is an intensive study of the rights of Americans as guaranteed by the Constitution. The changing character of civil liberties problems in the United States will be stressed with attention given to the legal, historical and political context of the cases studied. Class discussion and reports will be emphasized.

401. American Political Thought. First semester; lectures three hours; three credits. MR. SMITH.

Basic problems of political theory will be viewed from the perspective of the American experience. Writers to be considered will include Winthrop, Madison, Jefferson, Tocqueville, Thoreau, Whitman, Twain, James, Niebuhr, Hoffer.

403. The Political Theory of National Security. Either semester; seminar two hours; conference one hour; three credits. MR. MARTIN.

This course is an appraisal of such problems as aggression, "just war," the use of nuclear weapons, ideological and psychological conflict, and the role of the military in national policy. The effort is made through studies of these problems to develop a body of theory around the theme of national security.

405. Studies in Political Philosophy. Either semester; seminar two hours; consultation one hour; three credits. MR. MOSS, MR. ROBERTY, MR. SMITH.

This course will examine a particular theme or problem such as the following: political development and political community, authority and freedom, utopia and anti-statism.

406. Political Parties. Either semester; lectures three hours; three credits. MR. MOSS.

An analysis of the nature, sources, and organization of political power, and of the factors governing its conquest and surrender. The course deals chiefly with American politics but makes comparisons with politics of other countries. Special attention is given the problem of analyzing and reporting political situations.

Government 408. The Politics of the South. Either semester; lectures three hours; three credits. MR. MOSS.

This course is a study of political transition in the South. The nature and variety of traditional Southern politics will be discussed and the impact of the forces of change will be analyzed.

410. British Government and Politics. Either semester; lectures three hours; three credits. MR. MOSS.

A study of political institutions and political behavior in the United Kingdom and Eire. Special attention is given comparisons with the United States and the parliamentary democracies of the Commonwealth.

411. Problems in Comparative Politics. Either semester; two hours seminar, one hour consultation; three credits. Prerequisite: Consent of the instructor. MISS HAMILTON.

A study of selected problems of comparative politics with emphasis on France.

412 (same as Philosophy 412). Philosophical Problems in the Study of Politics. Second semester; lectures three hours; three credits. MR. BAXTER.

Basic concepts to be examined in this course include science, theory, explanation, causation, testing, predicting, facts and values. Attention will be given to theory formulation based on quantitative data.

431, 432. Comparative Political Systems. Continuous course; lectures three hours; three credits each semester. Prerequisite: Government 311, 312 or consent of the instructor. MR. BAXTER.

A comparative approach to the study of politics. Organization of the course centers around political phenomena and problems rather than countries. Such questions as these are asked: What are political systems? What do they do? What is the role of leadership in various

kinds of systems? In what ways are demands articulated? How are decisions made? Answers are sought in the experience of modernized, transitional and traditional countries.

452. The Administrative Process. Either semester; lectures three hours; three credits. STAFF.

A study of decision-making in modern bureaucracy with primary emphasis on United States practice. The functions and dysfunctions of large public service organizations will be dealt with.

454. City Politics and Planning. Either semester; lectures three hours; three credits. Prerequisite: Government 353 or consent of the instructor. MR. HOUSE.

An opportunity for a significant, creative project of the student's choice. Course focus is on forces shaping the political policies of urban regions, with particular reference to the interrelationship of public planning with city developments, private enterprise, and private initiative. Discussion of current city political problems and proximate solutions, such as: psychology and sociology of the city; nature and optimum level of public services and regulations; leadership, and financial capability of urban governments; effect of urban politics on the people.

465. Public Opinion and Voting Behavior. Either semester; lectures three hours; three credits. MR. EDWARDS.

The relationship between opinions and political policymaking, including the characteristics of political opinions, patterns of voting behavior, and the importance of leadership.

490. Topics in Government and Economic Policy. Either semester; lectures three hours; three credits. Prerequisites: Concentration in government, senior standing, graduate, and permission of instructor. STAFF.

Topics in Government and Economic Policy. This course will be offered separately or in conjunction with the Department of Economics.

HONORS STUDY

495, 496. Senior Honors. Continuous course; hours to be arranged; three credits each semester. **STAFF.**

Students admitted to Senior Honors in Government will be responsible for (a) reading and discussion of selected materials; (b) satisfactory completion by May 1 of an original scholarly essay; (c) satisfactory performance in a comprehensive examination in the field of the student's major interest.

REQUIREMENTS FOR THE DEGREE
OF MASTER OF ARTS

An applicant must have completed the requirements for a bachelor's degree in an institution of approved standing. An undergraduate concentration in political science is desirable; however, applicants in other fields of concentration may apply.

Admission to the program will be with the approval of the Department of Government and the Council on Graduate Studies of the College of William and Mary. An applicant may be required to make up certain deficiencies as determined by the Department of Government.

The Graduate Record Examination will be required of all applicants.

A member of the Government faculty will work with each candidate in the planning of his program. The program must have the approval of the Head of the Department of Government.

The candidate must complete satisfactorily 24 hours of course work, one-half of which must be at the 500 level. (No credit will be given for a grade below B.) Two semesters of residence in the College of William and Mary are required for the degree of Master of Arts. (Nine semester hours is the minimum residence requirement for a full-time graduate student.)

The Department of Government will make a formal recommendation of candidacy when the candidate completes satisfactorily one semester of course work. Upon achieving formal candidacy, and before registration for the second semester, the candidate must propose his thesis title for approval by the Head of the Department. At this time

the Head of the Department will designate the candidate's thesis advisor.

A comprehensive oral examination covering the entire field of study is required. Ordinarily this examination will be given in the final month of the second semester of course work and will not include a defense of the thesis.

At the beginning of the second semester of course work, the Head of the Department will appoint a candidate committee. The candidate committee will consist of three department members, and in each instance will include the candidate's thesis advisor, who will act as chairman. This committee will read the candidate's thesis, prepare and administer the oral examination, and make recommendations concerning the candidate's performance to the Head of the Department. All department action with respect to a candidate must be consistent with the recommendations of a majority of his committee.

The candidate may not present himself for oral examination until he has passed an examination in a foreign language appropriate to his plan of study. The Department of Government will arrange such examinations with the Department of Ancient Languages or the Department of Modern Languages.

All requirements for the degree must be completed within six calendar years.

GRADUATE INTERN PROGRAM

The Department of Government conducts a program of internships in politics in conjunction with the Master of Arts Degree program. Candidates for the Master of Arts Degree in Government whose academic and career interests are directed towards national or local government and political parties are invited to apply for internships.

GRADUATE COURSES

The Department of Government will offer the following graduate courses:

- 501. General Colloquium in Political Science (3), STAFF.
- 503. Seminar in Political Philosophy (3), MOSS, ROHERTY, SMITH.

- 505. Seminar in Comparative Politics (3), HAMILTON, BAXTER.
- 507. Seminar in International Politics (3), KIM, WARD.
- 509. Seminar in American Politics (3), CURRY, EDWARDS.
- 511. Readings in Political Science (3), STAFF.
- 560. Thesis (6), STAFF.

Government 501. The General Colloquium in Political Science will deal with basic problems in the discipline including the identification of significant substantive questions of political science, methods of investigation and research, and the dichotomy of theory and practice. Each candidate must include Government 501 in his program.

Government 560. (Thesis) requires that each candidate select a meaningful question or problem within the discipline for independent investigation and development. The master's thesis must exhibit the requisite writing skill and full documentation that are essential aspects of scholarship. However, the qualities of creative initiative and independence of judgment are understood as primary.

The candidate will complete his 500 level requirement (or 9 additional hours) by selecting from among the following: Government 503, 505, 507, 509, and 511. When these courses are offered the specific topics to be considered will be announced in advance by the instructor. Ordinarily the candidate will participate in two seminars—one in the field of his thesis, and Government 511.

The remaining 12 hours of course work may be selected from the undergraduate offerings of the Department of Government. Up to six hours of work, however, may be taken outside of the department subject to the approval of the advisor. Each candidate in conjunction with his advisor will develop a program of course work most suited to the interests of the candidate and consistent with overall demands on the department. All upper division work is available for graduate credit at the discretion of the department.

History

PROFESSORS JOHNSON¹ (*Head of the Department*), BEYER, BROWN, FOWLER AND McCULLY. ASSOCIATE PROFESSORS DONALDSON, ESLER,² FREEMAN, SELBY, SHERMAN AND TATE. ASSISTANT PROFESSORS BENSON,³ CRAPOL, FARRISS, FUNIGIELLO, JACKSON,³ KIM, LEARY,³ McARTHUR, McCORD, SHEEHAN, STRONG, AND TURBOW. LECTURERS CAPPON, CARSON, H. JOHNSON, S. KURTZ, REESE, AND RILEY.

REQUIREMENTS FOR CONCENTRATION

Concentration in History requires 30 semester credits in history, including History 101, 102, 201, and 202.

French and German are recommended for students planning to concentrate in history.

DESCRIPTION OF COURSES

EUROPEAN HISTORY

101, 102. History of Europe. Continuous course; lectures three hours; three credits each semester. STAFF.

A general introduction to the history of European civilization from classical times to the present. The first semester goes to 1715; the second, from 1715 to the present day.

***101-H, 102-H. History of Europe.** Freshman honors continuous course; lectures and discussion, three hours; three credits each semester. (Not offered 1968-69.)

A general introduction to the history of Europe for students enrolled in the honors program. The first semester examines classical and medieval influences on the modern world, and traces the development of modern civilization through the Renaissance and Reformation. The second semester will cover the period from the seventeenth century to the present. The course will seek particularly to develop understanding of the historical process and historical imagination.

¹ On leave of absence second semester 1968-69.

² On leave of absence, 1968-69.

³ Visiting Assistant Professor, 1968-69.

301, 302. The Ancient World. Continuous course; lectures three hours; three credits each semester. MR. JONES.¹

Ancient civilization from prehistoric times to the downfall of the Roman Empire. The first semester deals with the ancient Orient and Greece, up to B.C. 338; the second semester deals with Alexander, the Hellenistic World, and Rome. (Same as Greek 311-Latin 312. The course cannot be counted for concentration in history.)

311, 312. Europe in the Middle Ages. Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. MR. FREEMAN.

This course is designed to explain the nature of Medieval civilization and how it came into existence. First semester: the newly forming West and the Roman, German, Byzantine, and Arab influences which worked to create it. Second semester: the aggressive expansion of government, the church, business and city life along with the counter-development of restrictive forces that limited their free expansion.

313, 314. Renaissance and Reformation. Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. MR. JACKSON.

This course in the cultural history of Europe from the fourteenth through the seventeenth centuries will seek to probe the origins of the modern Western mind. Sympathetic attention will be given to artistic and ethical values; to religious, philosophical, and scientific world views; and to exploration, war, politics, and socio-economic circumstances.

315, 316. Europe in Transition, 1715-1871. Continuous course; lectures three hours; three credits each semester. STAFF. (Not offered 1968-69.)

An intensive survey of the decline of absolutism and the emergence of the modern state, together with an examination of the underlying causes of liberalism, nationalism and industrialism.

317, 318. Recent Europe, 1871 to the Present. Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. MR. STRONG.

¹ Professor of Ancient Languages.

During the first semester special stress will be placed on the background to World War I, the course of the war, the Russian Revolution, the Versailles settlement, and the rise of political extremism in west and central Europe. The second semester will be devoted to the period from 1933 to the present. Special emphasis will be placed on the failure of the Versailles settlement, World War II, and the emergence of contemporary Europe out of the aftermath of the Second World War.

319, 320. History of England. Continuous course; lectures three hours; three credits each semester. MR. McCORD.

Introduction to English history between the feudal society of William the Conqueror and the welfare state of Harold Wilson. Attention will be given to the continuing interaction of political, economic and intellectual forces. Readings will acquaint the student with sources as well as the literature of English history. The first semester will end with the Glorious Revolution of 1688.

321, 322. The History of Russia. Continuous course; lectures three hours; three credits each semester. MR. McARTHUR.

The political, economic, social and intellectual development of Russia. First semester to 1855. Second semester 1855 to the present.

409, 410. England Under the Tudors and Stuarts. Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. MR. FOWLER.

The first semester, 1485-1603; the second semester, 1603-1714.

412. Constitutional History of Modern England. Second semester; lectures three hours; three credits. MR. McCULLY. (Not offered 1968-69.)

A survey of English constitutional development from the end of the Middle Ages to the present. The course stresses the Tudor strong monarchy, the conflict of Crown and Parliament under the Stuarts, the Revolution of 1688 and the establishment of the limited monarchy, the rise of cabinet government, the growth of democracy, and the development of the civil service. (See Marshall-Wythe School of Law.)

413, 414. The Making of Modern England. Continuous course; lectures three hours; three credits each semester. MR. McCORD.

Beginning near the end of the American war (circa 1780) with an analysis of the Old Order, the course traces the gradual transformation of English society into an industrial democracy and welfare state. Emphasis will be placed on the interrelation of the changing economic, social, and political structures. Selected literature of the period, including novels, religious writings, and political thought, will form a large part of required readings.

417, 418. The British Empire. Continuous course; lectures three hours; three credits each semester. MR. McCULLY. (Not offered 1968-69.)

First semester, the formation and development of the old Colonial Empire through the American Revolution. Second semester, the rise of the new Empire through the nineteenth and twentieth centuries to the establishment of the British Commonwealth of Nations.

433, 434. Modern Germany. Continuous course; lectures three hours; three credits each semester. MR. STRONG.

First semester, the German Empire (Second Reich), 1870-1918; second semester, Germany from 1918-1945 (Third Reich). History 317, 318 prerequisite, or permission of instructor.

435, 436. Modern France. Continuous course; lectures three hours; three credits each semester. MR. TURBOW. (Not offered 1968-69.)

First semester, 1815-1871. The Restoration, July Monarchy, Second Republic, Second Empire. Special emphasis will be placed on social history: the interconnection of politics, art, and the emergence of new social forces. Second semester, 1871-1965. The Third Republic, Vichy, Fourth Republic, de Gaulle. The emergence of modern France, with special attention to the bourgeoisie and its revolution in arts and morals.

437, 438. History of France during the Age of the Enlightenment, the Revolution, and Napoleon. Continuous course; lectures three hours; three credits each semester. MR. TURBOW.

The first semester provides a close examination of social, intellectual

and political affairs from 1715 to 1789. The second semester offers a detailed study of the Revolution in the context of the age, the post-Revolutionary settlement, and the French conquest of Europe.

471. The Russian Intelligentsia: Selected Problems. Lectures three hours; three credits. MR. McARTHUR.

An intensive study of selected aspects of the nature and role of the Russian intelligentsia. Considerable use will be made of primary materials, including literature. A knowledge of the Russian language is not required, but will be utilized when available. Prerequisite: History of Russia, or consent of instructor.

472. The Russian Revolution. Lectures three hours; three credits. MR. McARTHUR.

An intensive study of the origins, course and impact of the Bolshevik Revolution. Considerable use will be made of primary materials. A knowledge of the Russian language is not required, but will be utilized when available. Prerequisite: History of Russia, or consent of instructor.

474. Medieval England. Second semester; lectures three hours; three credits. MR. FREEMAN.

A detailed study carried out by intensive research of selected topics. There will be no attempt to survey the subject, but rather students will analyze an important place of medieval English history through the study of primary and secondary sources. Students should have had previous experience with medieval English history. Consult with instructor.

AMERICAN HISTORY

201, 202. American History. Continuous course; lectures three hours; three credits each semester. STAFF.

The development of the United States. Special emphasis is placed on the period since 1776.

***201-H, 202-H. American History.** Sophomore honors course; lectures and discussion three hours; three credits each semester. MR. BENSON.

Designed to give the student insight into problems of interpretation and methodology, and to acquaint him with the literature of American history.

309, 310. Survey of Latin American History. Continuous course; lectures three hours; three credits each semester. MISS FARRISS.

After a preliminary study of the Amerindian and Iberian backgrounds, the first semester deals with the political, economic and social aspects of Latin America during the colonial period. The second semester surveys major post-independence developments in the various republics, with emphasis on the interrelated phenomena of political instability and economic underdevelopment.

***401, 402. Topics in Modern History.** Continuous course, hours to be arranged; three credits. STAFF.

A tutorial and seminar at the junior-senior level designed for outstanding history concentrators. Recommended for students intending to pursue graduate study.

***403. Colonial and Revolutionary Virginia.** Second semester; lectures three hours; three credits. MR. TATE.

A specialized study of the founding and development of the Virginia colony with special emphasis on the evolution of its social and political structure.

405, 406. Early American History. Continuous course; lectures three hours; three credits each semester. MR. SELBY.

Special stress is laid on the ideas and institutions which developed in British North America and which, in the course of the struggle for independence and the formation of the union of states, emerged as a distinctive national culture. The course divides at the year 1763 and concludes with the adoption of the Constitution.

421, 422. The United States, 1815-1877. Continuous course; lectures three hours; three credits each semester. MR. JOHNSON, MR. LEARY.

An intensive survey of the origins, development, and outcome of the struggle between the North and South.

423, 424. The United States Since 1877. Continuous course; lectures three hours; three credits each semester. MR. SHERMAN.

The emergence of the United States as an industrial and world power.

425, 426. American Intellectual History. Continuous course; lectures three hours; three credits each semester. MR. DONALDSON.¹

A study of the relation between ideas and events from Colonial times through the present. Included are investigations of philosophical, religious, political, and economic ideas as they relate to the Reformation, the Enlightenment, Transcendentalism, slavery, Darwinism, Pragmatism, and other categories. A familiarity with philosophy is strongly recommended.

429. American Constitutional History. Second semester; lectures three hours; three credits. MR. H. JOHNSON.

An analysis of constitutional development of the federal government, covering the topics of national sovereignty, economic regulation, judicial review and substantive due process.

441. The Caribbean. First semester; lectures three hours; three credits. MR. BEYER.

Deals particularly with the Spanish, English, and French West Indies. A sequential treatment of the eras of exploration and colonization; plantation prosperity and international rivalry; post emancipation problems; and incipient nationalism.

442. Brazil. Second semester; lectures three hours; three credits. MR. BEYER.

Antecedents of modern Brazil, 1500-present, with accent on economic, social, and cultural factors as well as on political growth in the Portuguese colony, the Empire, and the Republic.

443, 444. History of American Foreign Policy. Continuous course; lectures three hours; three credits each semester. MR. CRAPOL.

This course is concerned with the formulation and development of American foreign policy from 1775 to the present. The emphasis is on the domestic and international forces which have shaped the evolution of American foreign policy. Special attention is given to the problems involved in the planning and execution of foreign policy. First semester: 1775 to 1899. Second semester: 1899 to present.

¹ Assistant Professor of English.

446. America in the Early National Period, 1789-1815. First semester; three hours; three credits. MR. TATE.

The development of American nationalism from colonial society in the late eighteenth century to the beginnings of the Jacksonian period. The political and social philosophies of the founders, the struggle for independence, the formation of the Union, the impact of the French Revolution, political and cultural change. (*Not open to graduate students.*)

476. The Rise of Urban America. Lectures three hours; three credits. MR. FUNIGIELLO.

An examination of the growth and transformation of the American city from the colonial period to the present. Attention will be focused on the evolution of political and economic institutions, social change, technological innovations, planning theories, and the reactions of sensitive observers to the process of urbanization as expressed in imaginative literature and scholarly studies.

477, 478. History of Mexico. Continuous course; lectures three hours; three credits each semester. MISS FARRISS.

An intensive analytical study of the nature and development of the social-economic structure of Mexico from pre-Columbian times to the Twentieth Century, culminating with the Revolution, the Reform Constitution of 1917, and the extent to which the aims of the Revolution have been realized.

HONORS STUDY

***495, 496. Honors.** Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in History will be enrolled in this course during both semesters of their senior year. Each candidate will be responsible for (a) reading and discussion of a selected list of books in some specific area of historical literature, (b) a scholarly essay by May 1, (c) a comprehensive oral examination.

GRADUATE PROGRAM

Admission Policy. Each applicant for admission to the graduate program in history must file a completed application form, and provide

official transcripts of his academic record for all work done at the college or university level, his scores for both the aptitude and advanced history Graduate Record Examinations, and letters of recommendation from three of his college instructors. Applications must be complete by February 15 each year.

Minimum requirements for admission include an undergraduate degree from an accredited institution, an over-all academic average of 2.0 on a 3.0 scale, and the completion of 24 semester hours of work in history. Additional hours in history and course work in French, German, Latin, Russian or Spanish are very desirable.

Admission to the program will be made by the Dean of Graduate Studies upon the recommendation of the head of the History Department. Each student admitted will be automatically considered for an award of a fellowship or assistantship if needed.

REQUIREMENTS FOR DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY IN HISTORY

Master of Arts. Candidates for the degree must be in full-time residence for at least two semesters and, in addition to History 560 (Thesis), must obtain 24 semester credits in courses above the 300 level with a quality point average of 2.0 or better, including 501, 502, a research seminar, and one additional 500-level course. Candidates must demonstrate a reading knowledge of one foreign or classical language (French, German, Latin, Russian, or Spanish), submit a thesis, and pass a preliminary and a comprehensive examination. Graduate students enrolled in advanced courses open to undergraduates shall be required to do additional work on the graduate level. Each graduate student shall have a faculty supervisor who will be primarily responsible for the student's choice of a thesis subject and for advising him regarding research and writing problems encountered in preparing the thesis. All thesis subjects must be approved by the head of the Department. At present thesis subjects are limited to American or British history.

The records of graduate students will be reviewed by the Department after the first semester of residence to determine final accep-

rance as candidates for the degree of Master of Arts. Degrees ordinarily will be awarded only in June.

Apprenticeship Program in Historical Administration. The History Department at the College of William and Mary in cooperation with Colonial Williamsburg and the Institute of Early American History and Culture offers a combined program of academic study for the degree of Master of Arts in American History and practical training in historical administration. The three fields in which apprenticeship training is available are: Editing Historical Books and Magazines (Institute of Early American History and Culture); Operations of an Historical Library (The College Library and the Library of Colonial Williamsburg); and the Interpretation of Historical Sites (Colonial Williamsburg). The program runs from June through August of the succeeding year.

Doctor of Philosophy. At least three years of graduate study, of which one beyond the first must be spent in continuous residence as a full-time student at William and Mary, are required for the Doctor of Philosophy degree. Doctoral students must have completed the course requirements for the Master of Arts degree, or have fulfilled similar requirements at an equivalent institution, and in addition must obtain at least 18 semester credits in courses above the 400 level with a grade of B or better in each course, including a research seminar and History 552. Students may not count History 660 (Doctoral Dissertation) toward this requirement. By the end of the fifth semester of graduate study each student must take a written and an oral comprehensive qualifying examination in the area of his dissertation and two minor areas. Of the three, one must be in British or European history and one Early American history or the history of the United States. The fields from which students may choose are: medieval England; England, 1485 to the present; Europe, 1500-1789; Europe, 1789 to the present; American history to 1815; the United States, 1815 to the present; and Latin America. Course work also may be required in cognate fields.

Each student also must demonstrate a reading knowledge of two of the following languages: French, German, Latin, Russian, and Spanish. The language requirement must be satisfied before the comprehensive examination is taken.

Each candidate for the Ph.D. must write a dissertation which is based upon original research and which makes a contribution to historical knowledge. The dissertation must have been read and approved prior to April 1 in any given year in order to receive the degree the following June. The candidate must successfully defend his dissertation before the faculty.

At present dissertation subjects are limited to American and British history. All dissertation subjects must be approved by the head of the Department.

All requirements for the degree must be completed within seven years from the time of admission to the doctoral program.

GRADUATE COURSES

***501, 502. The Literature of American History.** Continuous course; three credits each semester. MR. SELBY, MR. FUNIGIELLO.

***503. Historical Method.** First semester; three credits. MR. CAPPON.

546. America in the Early National Period, 1789-1815. Second semester; three hours; three credits. MR. S. KURTZ. (Not offered 1968-69.)

The development of American nationalism from colonial society in the late eighteenth century to the beginnings of the Jacksonian period. The political and social philosophies of the founders, the struggle for independence, the formation of the Union, the impact of the French Revolution, political and cultural change.

551. Research Seminar in Early American History. First semester; three credits. MR. BROWN AND MR. SHEEHAN.

552. Advanced Seminar in American History. Second semester; three credits. MR. BROWN. (Open only to students who have completed at least one full year of graduate study.)

553, 554. Research Seminar in European History. Three credits each semester. STAFF. (Not offered 1968-69.)

557. Research Seminar in Nineteenth Century United States History. First semester; three credits. MR. L. JOHNSON.

559. Research Seminar in Recent American History. First semester; three credits. MR. SHERMAN.

560. Thesis. Both semesters. Hours to be arranged.

563, 564. England, 1485 to the Present. Continuous course; three credits each semester. STAFF.

565, 566. Europe, 1500-1789. Continuous course; three credits each semester. MR. JACKSON.

567, 568. Europe, 1789 to the Present. Continuous course; three credits each semester. STAFF.

569, 570. American History to 1815. Continuous course; three credits each semester. STAFF.

571, 572. American History, 1815 to the Present. Continuous course; three credits each semester. MR. JOHNSON AND MR. SHERMAN.

573, 574. Latin America. Continuous course; three credits each semester. MISS FARRISS. (Not offered 1968-69.)

575, 576. Medieval England. Continuous course; three credits each semester. MR. FREEMAN. (Not offered 1968-69.)

660. Doctoral Dissertation. Both semesters. Hours to be arranged.

Home Economics

ASSOCIATE PROFESSOR WILKIN (*Head of the Department*). ASSISTANT PROFESSOR T. MILLER.

The purpose of the Home Economics Department is to offer courses in homemaking that will be useful to the student in her own home. At the same time these courses are planned to relate to and supplement instruction which the student receives in many of the courses given in arts and history.

201. Home Living. Either semester; lectures three hours; three credits. MRS. MILLER.

This is an introductory course in which the significance of foods and nutrition, textiles and clothing, art in the home, organization of the activities of the home, and consumer education is presented. Historic and contemporary patterns of home living are studied.

209. Foods: Principles of Preparation. First semester; lecture one hour, laboratory four hours; three credits. MRS. MILLER.

A study is made of the fundamental scientific principles of food preparation and conservation of nutritive values. Aesthetic factors in family meals are presented.

210. Foods: Meal Planning and Dining Customs. Either semester; lecture one hour, laboratory four hours; three credits. MRS. MILLER.

This course includes the serving of family meals and special meals, menu planning at different levels of cost, marketing, organizing and preparation. Attention is given to the cultural and social values in family dining.

301. Nutrition and Physical Fitness. Second semester; lectures three hours; three credits. MRS. MILLER.

Basic nutritional knowledge applicable to achieving optimal health is stressed. Malnutrition in the United States and the world, and national and international activities for improving the nutrition of entire populations are studied.

307. Clothing Construction. Either semester; laboratory six hours; three credits. Miss WILKIN.

The chief objectives of this course are the development of standards by which to achieve satisfactory results in clothing design and construction, the selection of fabrics and style, and the use of modern tools, new processes and new equipment.

308. Special Problems in Clothing Construction. Either semester; laboratory six hours; three credits. MISS WILKIN.

A knowledge of basic processes in sewing is desirable. Fundamentals of pattern making will be studied. Individual problems will be selected on consultation with the instructor. Tailored coats and suits, dress designs involving intricate work, including hand sewing and hand decoration or other special problems may be chosen.

309. Textiles. First semester; lectures three hours; three credits. MISS WILKIN.

The place of textiles in the domestic, industrial and commercial world is stressed. Natural and man-made fibers are studied as to characteristics, limitations, and care of each. The construction decoration, finishes, and the probable durability of each are evaluated.

310. Textile Design and Decoration. Second semester; lectures two hours, laboratory two hours; three credits. MISS WILKIN.

Notable historic textiles of Ancient Oriental and Persian as well as Italian, French, and English Renaissance designs are studied noting their artistic quality, the symbolic art forms, and the influence of these on contemporary textile decoration. Museum prints and plates, as well as collections of Colonial Williamsburg and other historic shrines are used as illustrative material.

425. Home Furnishing and Decoration: American. Second semester; lectures three hours; three credits. MISS WILKIN.

A study is made of American homes and their prototypes in England and Europe. Authentic features in exterior and interior design, furnishings and accessories for such periods as Early American, Georgian, Victorian, and Contemporary are stressed.

326. Home Furnishing and Decoration: Historic. First semester; lectures three hours; three credits. MISS WILKIN.

A study is made of style, decoration, furnishings and artistic merits

of homes from ancient Egypt to the present. The study follows the development of culture and reveals the life of the people.

327. Historic Costume. First semester; lectures three hours; three credits. MISS WILKIN.

A study is made of dress as it parallels the development of civilization and reflects social, religious, political and economic conditions. Today's styles are studied for parallels with those of the past.

329. Home Management. Either semester; lectures three hours; three credits. MRS. MILLER.

A study is made of organizing the household and planning the daily activities to conserve material and human resources and to provide a satisfying background for pleasant family living.

431. Consumer Education. Either semester; lectures three hours; three credits. MRS. MILLER.

The position of the consumer as a buyer in the contemporary economic order is studied. Standards, grades, labels, budgeting, owning versus buying a home, aids from Federal bureaus and certificating agencies are discussed. Family financial problems throughout the entire life cycle are stressed.

Honors¹

PROFESSOR BEYER, *Director*

Students in the General Honors Program enroll each semester during their freshman and sophomore years in one colloquium and in one or more introductory departmental honors course. General honors work may be continued on a more limited basis into the junior year.

Honors 101A and each of the other colloquia are centered on a separate theme of interdisciplinary character. The themes of the individual classes change from semester to semester, but they all fall within the framework of a unifying subject. Thus, the general theme of the freshman honors colloquia, 1968-69, was "The Nature of Man

¹For further information on general honors and on departmental honors, see pages and respectively. Descriptions of the colloquia are available on request from the Office of the Director of Honors.

and the Varieties of Human Experience," and some of the subordinate themes treated in separate classes were "Prejudice, Attitude and Belief," "Morality and the Sciences of Man," "Studies in Civil Dissent," and "The Hero in Literature and Life." Junior seminars and Sophomore Colloquia differ from Freshman Colloquia in that they require a greater amount of independent work. Faculty are drawn from the College as a whole.

Departments offering honors courses on an introductory level (101H-102H or 201H-202H or both) are Economics, English, Fine Arts, Geology, Government, History, Psychology, Physics and Sociology.

Although most students in the program are admitted as entering freshmen, the opportunity exists for other freshmen and sophomores to be admitted at a later date on the basis of performance in college, interest, and faculty recommendations. Continuation in the general honors program is conditioned upon the student's intellectual vitality, interest, and on whether he is performing with distinction in his studies as a whole. A student may withdraw from the program at the end of any semester without penalty.

101A, 101B, 101C, 101D Colloquia on special themes; first semester; three credits. By invitation.

102A, 102B, 102C, 102D Colloquia; second semester; three credits. By invitation.

201A, 201B, 201C, 201D Colloquia; first semester; three credits. By invitation.

202A, 202B, 202C, 202D Colloquia; second semester; three credits. By invitation.

301A Seminar; first semester; three credits. By invitation.

302A Seminar; second semester; three credits. By invitation.

Humanities

201, 202. Literature. Continuous course; lectures three hours; three credits each semester. MR. EVANS AND MR. SCHOLNICK.

An introduction to the interpretation and evaluation of major works of literature, in English. About ten works are studied, including portions of the Bible, a classical epic, several Greek and Shakespearean dramas, and representative novels, plays and poems of various ages and cultures.



Poet Richard Wilbur reading his poems

Mathematics

PROFESSORS REYNOLDS (*Head of the Department*) AND SOUTHWORTH. ASSOCIATE PROFESSORS CATO, LAWRENCE, RINTEL, RUBLEIN, AND SANWAL. ASSISTANT PROFESSORS CONNER, EASLER, KUTNER¹, O'NEIL, PROSL, STANFORD AND TURNER. INSTRUCTORS AVIOLI, CARTER, FARRIER AND KIM.

REQUIREMENTS FOR CONCENTRATION

Concentration in Mathematics consists of 36 or more semester credits at the 200 level and above including the following: Mathematics 201, 202, 203, 302, 305, 307, 311, 312 and 12 additional hours from the 300 and 400 level including at least six hours of one continuous 400 level course. Mathematics 103, 105, 106, 230, 430 and *Engineering Graphics* 201, 202 may not be applied toward concentration in Mathematics.

DESCRIPTION OF COURSES

103. Algebra-Trigonometry. Both semesters; lectures three hours; three credits. STAFF.

An integrated study of the real number system, sets, functions, graphs, equations and inequalities, systems of equations, matrices and determinants. This is followed by a study of the trigonometric functions and their properties. Recommended for science majors who have a deficiency in their training in the fundamentals.

105, 106. Fundamental Concepts of Mathematics. Both semesters; continuous course; lecture three hours; three credits each semester. STAFF.

A study of the contemporary approach to the fundamental concepts of mathematics with emphasis on the structure of the number systems. Topics included are: sets, logic, properties of the real numbers and functions. This continues into the second semester with a study of theory of equations, matrices, determinants and probability.

This course is designed to give the non-science student a comprehensive look at mathematics and to give the underlying structure of the subject as it is currently being introduced into the curriculum of

¹ On leave of absence 1968-1969.

the public schools. It is further designed to give the prospective elementary and non-science secondary teachers the training in mathematics that is currently being recommended nationally for them.

201, 202, 203. Calculus with Analytic Geometry. Both semesters. Continuous course; lectures three hours; three credits each semester. Prerequisites: Math. 103 or its equivalent or consent of the head of the department. (Entering freshmen with good training in trigonometry are urged to begin with Math. 201). STAFF.

201. Inequalities, absolute values and analytics through conics. Sets, ordered pairs and functions leading to limits and derivatives of algebraic and transcendental functions including applications to maxima, minima, plane motion and Law of the Mean Value. Differentials and their applications.

202. The definite integral and the Fundamental Theorem of Integral Calculus and their applications to areas, volumes, work, first moments and centroids including improper integrals and solids of revolution. Techniques of integration, parametric equations, polar coordinates and vectors.

203. Sequences and series including Taylor's and Maclaurin's series and convergence. Solid analytic geometry and partial differentiation with applications. L'Hospital's Rule.

230. Elementary Computer Programming. Either semester; lecture two hours; two credits. Open to all students. MR. SMITH.

Introduction to computer languages, including Fortran and assembly language, with emphasis on the former. (This course may not be applied toward any concentration.)

302. Differential Equations. Both semesters; lectures three hours; three credits. Prerequisite: Math. 203 or the consent of the head of the department. STAFF.

Ordinary differential equations. Laplace Transform. Series solutions of Legendre and Bessel equations. Solution of partial differential equations by separation of variable. Applications in geometry, physics, and engineering.

305. Linear Algebra. First semester; lectures three hours; three credits. Prerequisite: Math. 203 or consent of the Head of the Department. STAFF.

An introduction into the study of Abstract Algebra beginning with systems of linear equations, linear transformations, determinants and matrices, placing the main emphasis on the study of vector spaces. This course provides a transition from calculus and college algebra to the later courses in abstract algebra. It is recommended for teachers of secondary mathematics.

307. Algebra. Second semester; lectures three hours; three credits. Prerequisite: Math 305. **STAFF.**

Sets, logic and introduction to groups, rings and fields. Properties of the number systems, congruences, polynomials and their applications to theory of equations. Recommended for teachers of secondary mathematics.

308. Geometry. Second semester; lectures three hours; three credits. Prerequisite: Math. 307 or the consent of the Head of the Department. **MR. REYNOLDS.**

Axioms and deductive reasoning. Some advanced Euclidean geometry including cross ratio and inversion; synthetic and coordinate projective geometry; duality; perspectivity; conics. Recommended for prospective teachers.

311, 312. Advanced Calculus. Continuous course; lectures three hours; three credits each semester. Prerequisite: Math. 203, Corequisite: Math. 302. **STAFF.**

Functions of several variables, directional derivative, operations with Taylor's series and series in several variables, uniform convergence, Green's and Stokes' Theorems and other topics chosen from classical analysis.

401, 402. Probability and Statistics. Continuous course; lectures three hours; three credits each semester. Prerequisites: Math. 312. **MR. RABINOWITZ.**

The first semester deals with classical probability theory and their applications. Topics include: combinatorial analysis, Bayes's Theorem, discrete and continuous probability distributions, and characteristics of distributions. The second semester deals with statistical inference theory and applications. Topics include: sampling from probability

distributions, estimation, hypothesis testing, confidence methods, regression analysis, experimental designs, and non-parametric statistics.

403. Intermediate Analysis. Second semester; lectures three hours; three credits. Prerequisite: Math. 312. MR. CONNER.

Real numbers; point sets; the Heine-Borel and Bolzano-Weierstrass theorems. Limits; continuity; and uniform continuity. Sequences and series of functions; uniform convergence. The Riemann integral. Functions of several variables.

405, 406. Complex Variables. Continuous course; lectures three hours; three credits each semester. Prerequisite: Math. 312. MR. CATO.

The complex plane; functions; continuity; differentiability; analytic functions and the Cauchy-Riemann equations; multi-valued functions; contour integrals; the Cauchy Integral Theorem and the Cauchy Integral Formula. The second semester continues with MacLaurin and Laurent series expansions, calculus of residues, evaluation of real definite integrals, and other selected topics.

407, 408. Abstract Algebra. Continuous course; lectures three hours; three credits each semester. Prerequisites: Math. 305, 307. MR. O'NEIL AND MR. SANWAL.

Groups, rings, isomorphism theorems, polynomials, modules, vector spaces; linear transformations, matrices, Jordan and other canonical forms, quadratic forms.

410. Special Topics. Either semester; one, two or three hours lecture and credit, depending upon topics chosen. Prerequisite: consent of the Head of the Department. STAFF.

Topics selected from Theory of Equation, Projective Geometry, Linear Algebra, Intermediate Analysis, Applied Mathematics, etc.

412. Introduction to Number Theory. First semester; lectures three hours; three credits. Prerequisite: Math. 307 or consent of the Head of the Department. MR. REYNOLDS.

An elementary course in the theory of integers, divisibility and properties of prime numbers; a study of Diophantine equations, congruences, number theoretical functions, decimal expansion of rational

numbers and quadratic residues included. Recommended for prospective secondary teachers of mathematics.

413, 414. Topics in Numerical Analysis. Continuous course; lectures three hours; three credits each semester. Prerequisites: Math. 302, 305, and computer programming. MR. SOUTHWORTH.

The topics to be discussed the first semester are roots of equations, solutions of systems of linear equations by matrix methods, eigenvalues and eigenvectors of matrices, interpolation, numerical evaluation of integrals, and numerical differentiation.

The second semester topics include empirical data curve fitting, integration of systems of ordinary differential equations of both the initial value and boundary value type. Several of the assignments will require the programming of a digital computer to obtain numerical results.

430. Numerical Methods and Computer Programming. Either semester; lecture two hours; two credits. Prerequisite: Math. 302, co-requisite: Math. 305. MR. SMITH.

Introduction to computer programming and numerical methods. Topics include roots of equations, simultaneous linear equations, and non-numerical applications of programming in compiler and assembler design. (This course may not be applied toward any concentration.)

Engineering Graphics 201, 202. Engineering Drawing and Descriptive Geometry. Continuous course; laboratory six hours; three credits each semester. MR. SMITH.

Fundamentals of Engineering Drawing and Descriptive Geometry. Orthographic projection, auxiliary views. Isometric, oblique projection and drawing; perspective; machine parts such as screws, gears, valves, cams. Lettering. Graphic and analytic solutions of engineering and geometric problems. Intersection and development of surfaces.

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES IN MATHEMATICS

Requirements for admission are listed on pages 94-95 of this catalogue. Candidates for the degree of Master of Arts and Master of Science in Mathematics must meet the following requirements in addi-

tion to the general requirements stated on pages 107-109 of this catalogue.

1. After consultation with the Mathematics Department, the student may be required to take undergraduate courses in which his preparation is judged inadequate.

2. The student must demonstrate a reading knowledge of French, German or Russian, in the field of mathematics, at least one semester prior to qualifying for the degree.

3. Each candidate must pass a comprehensive examination to be taken at least two weeks before regular semester examinations. This examination shall be given only after the total semester credits required have been completed or in the semester in which these credits will be completed.

4. For the Master of Arts degree, in addition to Math. 560 (Thesis), the candidate must successfully complete 24 semester credits in courses numbered above 400 including at least 12 semester credits in courses limited to graduate students (500 level) and with a grade of B or better in each 400 level course taken for graduate credit. He will also have a faculty supervisor who will be primarily responsible for the student's choice of a thesis subject and for advising him regarding research and writing problems encountered in preparing his thesis.

5. For the Master of Science degree, the student must take a total of 32 semester credits consisting of 20 or more credits at the 500 level. A grade of B or better is required in each 400 level course taken for graduate credit.

GRADUATE COURSES

501, 502. Modern Abstract Algebra. Continuous course; lectures three hours; three credits each semester. Prerequisite: Math. 307 or its equivalent. MR. PROSL.

503, 504. Analysis. Continuous course; lectures three hours; three credits each semester. Prerequisite: Math. 403. MR. STANFORD.

505, 506. Topology. Continuous course; lectures three hours; three credits each semester. MR. SANWAL.

509, 510. Applied Mathematics I. Continuous course; lectures three hours; three credits each semester. Prerequisite: Math. 312. MR. LAWRENCE.

511, 512. Applied Mathematics II. Continuous course; lectures three hours; three credits each semester. Corequisite: Math. 509, 510. MR. RINTEL.

551. Readings in Algebra and Number Theory. One to three hours either semester depending upon material covered. MR. REYNOLDS.

552. Readings in Analysis I. One to three hours either semester, depending upon material covered. STAFF.

553. Readings in Analysis II. One to three hours either semester, depending upon material covered. STAFF.

554. Readings in Topology. One to three hours either semester, depending upon material covered. MR. RUBLEIN.

555. Readings in Applied Mathematics. One to three hours either semester, depending upon material covered. MR. RINTEL.

560. Thesis. Hours to be arranged. STAFF.

585. Research. Both semesters; hours and credits to be arranged. STAFF.

Military Science Army

PROFESSOR COL. WETHERELL (*Head of the Department*). ASSISTANT PROFESSORS LT. COL. SHIVEL, MAJOR SWARDELL, CAPTAIN CRITTENDEN AND CAPTAIN ELLERSON.

RESERVE OFFICERS' TRAINING CORPS

A unit of the Reserve Officers' Training Corps was established at the College of William and Mary on July 1, 1947, with an assigned mission of training students for positions of leadership in the Armed Forces in time of national emergency.

The scope of training is designed specifically to train students in General Military Science. The GMS course gives the student a college level program of general military subjects, teaches him the fundamentals of leadership, and provides him an opportunity to perfect his leadership technique by practical application.

Any male student who is a citizen of the United States, physically qualified, and not already holding a commission in any of the Armed Forces may, when he matriculates in the College, enroll in the first year basic course.¹ Those meeting the above qualifications but who have had prior military training, whether in the Armed Forces or in another college may, commensurate with the degree of such training, enroll in Military Science I through IV.² Transfer students desiring to take advantage of previous military training should consult the Professor of Military Science when they matriculate in the College. Enrollment must place military and academic instruction in phase with each other.

¹ Students who enroll in either the basic or advanced courses will be required to complete the course in which they are enrolled in order to receive college credit for any part of the two-year period. However, in cases where a student is forced to drop from the ROTC because of physical disability or other bona fide reasons beyond his control, the Professor of Military Science may, at his discretion, recommend to the college authorities that the student be given credit for a part of or all of his completed work.

² For those students desiring to participate, there is a 2 year program available beginning with the summer prior to the junior year and extending through the completion of the senior year. Details available at the office of the Department of Military Science.

Having completed satisfactorily the two year basic course or its equivalent, and having demonstrated the traits of character and leadership ability which justify his further training as a candidate for a commission, a student who also has an adequate academic standing becomes an eligible candidate for admission to the advanced course (MS III and MS IV). Those who complete this course may, upon graduation from the College, be commissioned as Second Lieutenants, United States Army Reserve. Outstanding ROTC cadets will be offered a commission in the Regular Army under the provisions of the Distinguished Military Graduate Program.

Students who enroll in the basic course are furnished standard government issue uniforms. Those who enroll in the advanced course receive tailored officer-type uniforms. Student enrolled in the advanced course become members of the Enlisted Reserve and receive a retainer of \$50.00 per month. Advanced course students are required to attend a six-weeks summer camp, generally between their third and fourth years at college¹ and are paid one half of a Second Lieutenant's salary during that period. They also receive travel pay to and from camp, and while there are rationed and quartered at government expense.

The Professor of Military Science may grant a temporary draft deferment to any student enrolled in ROTC. This deferment will defer the student from induction for training and service under the Universal Military Training and Service Act until he has completed his college education.

Current regulations also permit a delay in the active duty training of newly commissioned students who have been accepted for graduate work in a recognized field and who have applied for such delay.

The branch of service in which a commission is offered to the individual student is dependent upon the needs of the Army, the desires of the student and recommendations of a selection board composed of civilian and military faculty members. A student who is commissioned and subsequently enters graduate school to specialize in such fields as medicine, ministry, and engineering may, upon completion of such training, apply for transfer to a branch of service related to his particular field of endeavor.

¹ Two year program cadets must attend two (2) summer camps. Details available at the office of the Department of Military Science.

DESCRIPTION OF COURSES

101. First Semester, First Year Basic.¹ Lecture one hour; one credit.

Purpose, history, organization, and administration of the ROTC program. Brief orientation on U.S. Army organization. Presentation of organization of small army units emphasizing the duties and responsibilities of key personnel. Care and use of individual weapons through practical exercise.

102. Second Semester, First Year Basis.¹ Lecture one hour; one credit.

Principles of war and the changing nature of warfare. Goals, factors and instruments that influence national power. The objectives of national security and defense. Army missions and functions. Role of other services in the implementation of national defense policy.

201. First Semester, Second Year Basic.¹ Lecture two hours; two credits.

American Military history as it has affected the organizational, tactical, social, and similar patterns of our present-day army.

202. Second Semester, Second Year Basic.¹ Lecture two hours; two credits.

Application of basic principles of map and aerial photograph interpretation and land navigation. Composition of basic military and combined-arms teams. Principles of operations and basic tactics. Introduction to troop leading procedures.

301. First Semester, First Year Advanced.¹ Lecture two hours; one credit.

Leadership and Management I—Principles and techniques of leadership and management; psychological, physiological and sociological factors which affect human behavior; analysis and solution of problems of leadership. Fundamentals of educational psychology as they pertain to instructional techniques; planning, preparing, presenting and evaluating military instruction.

¹ Each semester course requires participation in a two hour leadership laboratory.

302. Second Semester, First Year Advanced.¹ Lecture three hours; three credits.

Fundamentals and Dynamics of the Military Team I—History and roles of combat arms and supporting services; Review of principles and fundamentals of small unit tactics; principles of offensive and defensive combat as applied to larger units. Familiarization with the means, principles and techniques of communication, to include communications security. Analysis of the principles and nature of internal defense development.

401. First Semester, Second Year Advanced.¹ Lecture three hours; three credits.

Fundamentals and Dynamics of the Military Team II—Command and staff evaluation, organization, and functions; decision making processes and techniques. Methods and procedures of military intelligence collection and application of military intelligence in the formulation of decisions. Principles and techniques of logistics. Fundamentals of the application of military force by combined-arms teams. Analysis of the principles and nature of internal defense development.

402. Second Semester, Second Year Advanced.¹ Lectures two hours; one credit.

Leadership and Management II—Army administrative management. Concept of military justice and differences between civil and military law. Responsibilities of commanders; management of men, maintenance of discipline, morale factors. Assessment of national power; analysis of national power factors and their impact on the Armed Forces.

Flight Training: An FAA approved flight training program of approximately 35 hours ground training and 36½ hours flight instruction conducted by civilian flight contract is offered to selected senior ROTC Cadets.

¹ Each semester course requires participation in a two hour leadership laboratory.

Modern Languages¹

PROFESSORS BANNER (*Head of the Department*), HOFFMAN, KALLOS, McCARY, MOORE, OUSTINOFF, RINGGOLD, STONE. ASSOCIATE PROFESSORS BEELER, COKE, KURTZ, MARTEL, ZIMMERMAN. ASSISTANT PROFESSORS BACKHAUS, DIDUK, KELLEY, KILLEN, LAVIN, RICHEL, SQUIRE TYLER.² INSTRUCTORS BASSO, BELSKIS, BIEN, DAN, DOLIBER, HODGES, O'NEIL, PALMAZ, WUKASCH. ASSISTANT INSTRUCTOR BLOUNT.

Courses in the 100³ and 200 groups are designed to give a well-rounded linguistic experience, including the spoken as well as the written language, and to develop an awareness and appreciation of other cultures. Supervised language laboratory is an integral part of courses 101 and 102; three class meetings and two hours in the language laboratory.

Courses in the 300 and 400 groups are designed to give further experience in the principal facets of language study, a reasonable knowledge of the literature, some experience in literary criticism, to the end that the student may experience in some degree the humanizing process which derives from the study and understanding of foreign languages and cultures. Courses in general are conducted in the foreign language.

Students concentrating within the area of Modern Languages are required to take at least six credits in an Ancient language.

FRENCH

REQUIREMENTS FOR CONCENTRATION

The following courses are required for concentration in French, and should be taken in this order: French 301, 304, 305 and 312; also, either 401 or 402 and either 411 or 412; a minimum of nine additional hours will be chosen from among the 300 and 400 courses.

¹ The distribution requirements for foreign languages are indicated on page 102. All language requirements for a degree should be begun in the freshman year.

² On leave of absence 1967-68.

³ No credit will be counted toward a degree for the first semester of an elementary foreign language unless followed by the successful completion of the second semester of that language.

Students planning to concentrate in French are advised to choose Latin to satisfy the requirement of at least 6 semester credits in an Ancient Language.

DESCRIPTION OF COURSES

101, 102. Elementary French. Continuous course; lectures three hours; language laboratory two hours; four credits each semester. Students who have acquired 2 high school credits in French may not take French 101, 102 for credit. STAFF.

201, 202. Intermediate Level. Continuous course; lectures three hours; three credits each semester. Prerequisite: two high school units for 201, three high school units for 202 or the equivalent. Students who have acquired three high school units in French may not take 201 for credit. STAFF.

A review and continuation of the study of French grammar, incorporated with the continued development of reading, writing, speaking and comprehension skills.

205. Intermediate Grammar and Composition. Both semesters; lectures three hours; three credits. Prerequisite: French 202 or the equivalent. STAFF.

Review of main principles of syntax. Composition.

206. Intermediate Conversation. Both semesters; lectures three hours; three credits. Prerequisite: French 205 or the equivalent. Mr. MARTEL.

Phonetics; intensive oral-aural training.

207. Advanced Reading in French Literature. First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Selected readings from the literature of the seventeenth, eighteenth, nineteenth and twentieth centuries. A reading course designed as an introductory step to the 300 courses in literature.

208. The French Heritage. Second semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

***French 209. Introduction to French Literature from 1494 to 1815.** First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Study of the historical development of the literary genres from the beginning of the Renaissance to the end of the 18th century.

***French 210. Introduction to French Literature from 1815 to 1930.** Second semester; lectures three hours; three credits. Prerequisite: French 209 or the equivalent. STAFF.

Study of the historical development of the literary genres from 1815 to 1930.

Reading course embodying the most important elements of French civilization, designed as an introductory step to the 300 courses in literature.

French 301. Seventeenth-Century French Literature I. First semester each year; lectures three hours; three credits. Prerequisite: French 207 or 209 or 210 or the equivalent. MR. McCARY, MR. BEELER AND MR. COKE. Required of all concentrators.

Dramatic literature of the seventeenth century, emphasizing the major works of Corneille, Moliere, and Racine.

French 302. Seventeenth-Century French Literature II. Second semester each year; lectures three hours; three credits. Prerequisite: French 207 or 209 or 210 or the equivalent. MR. McCARY, MR. BEELER AND MR. COKE.

Non-dramatic literature of the seventeenth century: the baroque poets, Malherbe, Pascal, La Fontaine, Boileau and other major writers of the period.

French 304. Advanced Grammar and Composition. Second semester each year; lectures three hours; three credits. Prerequisite: French 205 and another 200 course or the equivalent. MR. RINGGOLD. Required of all concentrators.

Advanced syntax and intensive written work.

French 305. Advanced Conversation I. First semester each year; lectures three hours; three credits. Prerequisite: French 206 or another

200 course or the equivalent. MR. MARTEL AND MRS. DAN. Required of all concentrators.

Advanced intensive oral-aural training.

French 306. Advanced Conversation II. Second semester each year; lectures three hours; three credits. Prerequisite: French 305 or the equivalent. MR. MARTEL AND MRS. DAN.

Advanced intensive oral-aural training.

French 307. French Phonetics and Diction. First semester each year; lectures three hours; three credits. Prerequisite: French 206 and another 200 course or the equivalent. This course may be taken concurrently with French 305. Recommended for students who expect to teach French in high school. MR. OUSTINOFF.

Intensive study of phonetics, with particular attention given to the exceptions to the "rules" of French pronunciation and to individual problems.

French 311. Eighteenth-Century French Literature I. First semester in alternate years; lectures three hours; three credits. Prerequisite: French 207 or 209 or 210 or the equivalent. STAFF.

The novel and the theatre of the eighteenth century.

French 312. Eighteenth-Century French Literature II. Second semester each year; lectures three hours; three credits. Prerequisite: French 207 or 209 or 210 or the equivalent. Required of all concentrators. MR. OUSTINOFF, MR. COKE AND MR. McCARY.

Study of the major writers of the French Enlightenment: Montesquieu, Voltaire, Diderot, Rousseau and others.

French 401. Nineteenth-Century French Literature I. First semester each year; lectures three hours; three credits. Prerequisite: French 209 or 210 or the equivalent. Concentrators must take either French 401 or 402. MR. MARTEL.

Study of the major romantic writers in French.

French 402. Nineteenth-Century French Literature II. Second semester of each year; lectures three hours; three credits. Prerequisite:

French 209 or 210 or the equivalent. Concentrators must take either 401 or 402. MISS DOLIBER.

The novel of the nineteenth century with special emphasis on Balzac, Stendhal, Flaubert and Zola.

French 404. French Poetry from Baudelaire to Apollinaire. Second semester each year; lectures three hours; three credits. Prerequisite: French 401 or at least nine hours of 300 literature courses or the equivalent. STAFF.

The post-romantic poets in France, with emphasis on Baudelaire and the Symbolists.

French 405. Advanced Writing in French. First semester each year; lectures three hours; three credits. Prerequisite: French 304 or the equivalent. Consent of the instructor required. MR. RINGGOLD.

An intensive course in writing and language analysis.

French 411. Twentieth-Century French Literature I. First semester each year; lectures three hours; three credits. Prerequisite: French 209 or 210 or the equivalent. Concentrators must take either 411 or 412. MR. OUSTINOFF.

Study of representative writers and works up to 1939.

French 412. Twentieth-Century French Literature II. Second semester each year; lectures three hours; three credits. Prerequisite: French 209 or 210 or the equivalent. Concentrators must take either 411 or 412. MR. KILLEN.

Study of representative writers and works since 1939; existential literature, the new novel, the theatre of the absurd.

French 422. Literature of the Middle Ages. Second semester in alternate years; lectures three hours; three credits. Prerequisite: French 209 or 210 or the equivalent. STAFF.

Study of French literature up to 1500; representative works. (Most texts are read in modern French translation.)

French 423. Renaissance Literature. First semester in alternate years; lectures three hours; three credits. Prerequisite: French 209 or 210 or the equivalent. MR. BEELER.

Study of the major writers of the French Renaissance.

French 431. The French Theatre. First semester in alternate years; lectures three hours; three credits. Prerequisite: Concentrators must have completed nine hours of 300 or 400 literature courses; non-concentrators must have the consent of the instructor. **STAFF.**

A critical study of the development of the theatre in France from the Renaissance to modern times.

French 432. The Novel in France. Second semester in alternate years; lectures three hours; three credits. Prerequisite: Concentrators must have completed at least nine hours of 300 or 400 literature courses; non-concentrators must have the consent of the instructor. **STAFF.**

A critical study of the development of the novel in France.

French 450. Seminar in French Literature. Offered both semesters; lectures three hours; three credits. Prerequisite: at least nine hours of 300 or 400 literature courses and Senior standing. **STAFF.**

Recommended for concentrators who expect to continue with graduate study.

A study in depth of a limited literary topic. Students will write and present papers for critical discussion.

French 495, 496. Honors. Continuous course; hours to be arranged; three credits each semester. **STAFF.**

Students admitted to Honors Study in Modern Languages will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading of a general bibliography in the language and literature of the student's field of concentration; (b) supervised reading of a special bibliography in the student's field of special interest; (c) presentation by May 1 of a satisfactory Honors Essay in the field of the student's major interest; and (d) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.

GERMAN

REQUIREMENTS FOR CONCENTRATION

The following courses are required for concentration in German,

and should be taken in the following order: German 207, 208, 301, 302, 305 and three of the following courses: 401, 402, 403 and 404.

DESCRIPTION OF COURSES

101, 102. Elementary German. Continuous course; lectures three hours; language laboratory two hours; four credits each semester. Training in pronunciation, aural-oral comprehension with the use of audio-visual techniques. STAFF.

Students who have acquired two high school units in German may not take German 101, 102 for credit.

201. Graded Readings in German Prose. First semester; lectures three hours; three credits. Students who have acquired three high school units in German may not take German 201 for credit. STAFF.

A reading course which includes a grammar review.

202. Readings in Masterpieces of German Literature. Both semesters; lectures three hours; three credits. Prerequisite: three high school units or 201 or the equivalent. STAFF.

Selected readings from the masterpieces of German literature.

204. Scientific German. Both semesters; lectures three hours; three credits. Prerequisite: German 202 or the equivalent. MISS BACKHAUS.

Reading of scientific texts in chemistry, physics, biology, and general science.

205. Intermediate Grammar and Composition. Both semesters; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Review of main principles of syntax; composition.

206. Intermediate Conversation. Both semesters; lectures three hours; three credits. Prerequisite: German 205 or the equivalent. MRS. DIDUK.

Phonetics; intensive oral-aural training.

207. The German-Speaking Peoples and Their Civilization. Both semesters; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Reading course embodying the most important elements of Germanic Civilization, designed as an introductory step to the 300 courses.

208. Introduction to German Literature. Both semesters; lectures three hours; three credits. Prerequisite: German 207 or the equivalent. MR. KALLOS.

A study and discussion of the representative genres of German literature, designed as an introductory step to the 300 courses.

301. German Classicism. First semester; lectures three hours; three credits. Prerequisite: German 208 or the equivalent. MR. KURTZ.

Reading and interpretation of the chief works of Lessing, Goethe, and Schiller.

302. Survey of German Literature. Second semester; lectures three hours; three credits. Prerequisite: German 301 or the equivalent. MR. KURTZ.

Main currents of German literature from its origin through the Baroque period; study of representative works.

305. Advanced German Composition and Conversation. Second semester; lectures three hours; three credits. Prerequisites: German 205 and 206 or the equivalent. MISS BACKHAUS.

401. From Romanticism to Poetic Realism. First semester; lectures three hours; three credits. Prerequisite: German 301 or 302. MR. ZIMMERMAN.

The Romantic Schools, political writers, the "Young Germany" circle, poetic realism, naturalism, impressionism; reading and interpretation of representative works.

402. Modern German Literature. Second semester; lectures three hours; three credits. Prerequisite: German 401 or the equivalent. MR. KALLOS.

Principal literary trends; reading and interpretation of representative works.

403. German Poetry. First semester; lectures three hours; three credits. Prerequisite: German 402 or the equivalent. MR. KALLOS.

Reading and interpretation of outstanding poetic works from the eighteenth century to the present.

404. The Faust Sagas and Goethe's Faust. Second semester; lectures three hours; three credits. Prerequisite: German 403 or the equivalent. MR. ZIMMERMAN.

Reading and interpretation of Goethe's *Faust* (First Part), and a study of its historical background and sources.

ITALIAN¹

101, 102. Elementary Italian. Continuous course; lectures three hours; language laboratory two hours; four credits each semester. Training in pronunciation, aural-oral comprehension with use of audio-visual techniques. Students who have acquired two high school units of Italian may not take Italian 101, 102 for credit. Miss BASSO.

201. Intermediate Italian. First semester; lectures three hours; three credits. Prerequisites: Italian 101 and 102 or the equivalent. Miss BASSO.

A reading course which includes composition and oral practice.

202. Reading in Italian Literature. Second semester; lectures three hours; three credits. Prerequisite: Italian 201 or the equivalent. Miss BASSO.

Selected readings from the literature of the eighteenth, nineteenth and twentieth centuries.

301. Survey of Italian Literature from the Beginning to 1700. First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. MR. COKE.

Survey of Italian Literature up to 1700. Study of representative works.

302. Italian Literature from 1700 to the Present Time. Second semester; lectures three hours; three credits. Prerequisite: Italian 301 or the equivalent. MR. COKE.

Survey of Italian Literature up to 1950. Study of representative works.

¹ Owing to limited instruction facilities, enrollment will be restricted.

401. The Italian Theatre. First semester; lectures three hours; three credits. Prerequisite: Italian 301 or the equivalent. MR. COKE.

The development of the theatre in Italy, with emphasis on the Renaissance and the twentieth century.

402. The Novel in Italy. Second semester; lectures three hours; three credits. Prerequisite: Italian 301 or the equivalent. MR. COKE.

The development of the novel in Italy as a literary genre, with emphasis on the twentieth century.

RUSSIAN¹

101, 102. Elementary Russian. Continuous course; lectures three hours; language laboratory two hours; four credits each semester. Training in pronunciation, aural-oral comprehension with use of audio-visual techniques. Students who have acquired two high school units of Russian may not take Russian 101, 102 for credit. MR. WUKASCH.

201. Intermediate Russian. First semester; lectures three hours; three credits. Prerequisites: Russian 101 and 102 or the equivalent. MR. WUKASCH.

Review of the fundamentals of grammar and pronunciation and reading of moderately difficult texts.

202. Readings in Masterpieces of Russian Literature. Second semester; lectures three hours; three credits. Prerequisites: Russian 101 and 102 or the equivalent. MR. WUKASCH.

Selected readings from Russian literature of the 19th century.

297, 298. Survey of Russian Literature in English. A continuous course; however, each semester may be taken singly for credit. Lectures three hours; three credits each semester. STAFF.

A chronological survey of Russian literature from its beginning to the Soviet Period, with emphasis given to the major writers of the 19th century.

301. Survey of Russian Literature from the Beginning to 1850.

¹ Owing to limited instruction facilities, enrollment will be restricted.

First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Survey of literature up to 1850. Study of representative works.

302. Survey of Russian Literature from 1850 to the Present. Second semester; lectures three hours; three credits. Prerequisite: Russian 301 or the equivalent. STAFF.

Survey of Russian literature from 1850 up to the present. Study of representative works.

SPANISH

REQUIREMENTS FOR CONCENTRATION

The following courses are required for concentration in Spanish; and should be taken in this order: 301, 302, 303, 305, 306 and four of the following courses: 401, 402, 403, 404, 405, 406.

Students planning to concentrate in Spanish are advised to choose Latin to satisfy the requirement of at least six semester credits in an Ancient Language.

DESCRIPTION OF COURSES

101, 102. Elementary Spanish. Continuous course; lectures three hours; language laboratory two hours; four credits each semester. Training in pronunciations, aural-oral comprehension with the use of audio-visual techniques. Students who have acquired two high school units in Spanish may not take Spanish 101, 102 for credit. STAFF.

201. Intermediate Spanish Reading. Both semesters; lectures three hours; three credits. Prerequisite: two high school units or the equivalent. Students who have acquired three high school units in Spanish may not take 201 for credit. STAFF.

A reading course which includes a grammar review.

202. Readings in Modern Literature. Both semesters; lectures three hours; three credits. Prerequisite: three high school units, or Spanish 201 or the equivalent. STAFF.

Selected readings from the literature of the nineteenth and twentieth centuries.

205. Intermediate Grammar and Composition. Both semesters; lectures three hours; three credits. Prerequisite: Spanish 202 or the equivalent. MR. BANNER.

Review of main principles of syntax; composition.

206. Intermediate Conversation. Both semesters; lectures three hours; three credits. Prerequisite: Spanish 205 or the equivalent. MR. LAVIN.

Phonetics; intensive oral-aural training.

207. The Spanish Heritage. First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Reading course embodying the most important elements of Hispanic civilization, designed as an introductory step to the 300 courses in literature.

208. Readings in Masterpieces of Spanish Literature. Second semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Selected reading from Spanish literature from the beginning to the present. A reading course designed as an introductory step to 300 courses in literature.

301. Spanish Literature from the Beginning to 1700. First semester; lectures three hours; three credits. Prerequisite: Spanish 207 or 208 or the equivalent. MR. MOORE.

Survey of Spanish literature from its beginning to the end of the Golden Age. Study of representative works.

302. Spanish Literature from 1700 to the Present Time. Second semester; lectures three hours; three credits. Prerequisite: Spanish 301 or the equivalent. MR. BANNER.

Survey of Spanish literature from 1700 to the present. Study of representative works.

303. Advanced Grammar and Composition. Second semester; lectures three hours; three credits. Prerequisite: Spanish 205 and another 200 course or the equivalent. MR. STONE.

Advanced syntax and intensive written work.

305, 306. Advanced Conversation. Continuous course; lectures three hours; three credits. Prerequisites: Spanish 206 and another 200 course or the equivalent. MR. STONE.

Advanced intensive oral-aural training.

401. The Novel. First semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. STONE.

Survey of the early novel with detailed study of the modern novel since Romanticism. Study of representative works.

402. Drama of the Golden Age. First semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. HOFFMAN.

Survey of the drama from its beginning. Detailed study of the drama of the Golden Age. Study of representative works.

403. Cervantes. Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. MOORE.

The life and works of Cervantes with particular emphasis on the *Quijote* and the *Novelas Ejemplares*.

404. Drama of the 19th and 20th Centuries. Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. BANNER.

Principal movements and authors in the drama of the 19th and 20th centuries. Study of representative works.

405. Directed Readings in Spanish Literature. First semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. BANNER.

This course is designed to permit the student to pursue in depth an area of literature in which he has a major interest.

406. Survey of Spanish American Literature. Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. MR. HOFFMAN.

Principal literary movements in Spanish America. Study of representative works.

HONORS STUDY

495, 496. Honors. Continuous course; hours to be arranged; three credits each semester. **STAFF.**

Students admitted to Honors Study in Modern Languages will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading of a general bibliography in the language and literature of the student's field of concentration; (b) supervised reading of a special bibliography in the field of the student's major interest; (c) presentation by May 1 of a satisfactory Honors Essay in the field of the student's major interest; and (d) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.



Music

PROFESSORS TRUESDELL (*Head of the Department*), FEHR, STEWART, AND VARNER. ASSOCIATE PROFESSOR PALEDES. LECTURERS CATRON, DARLING, KOLLER, KOMAN, REDHAIR, ROARK AND TORIAN.

The Department of Music offers concentration in music appropriate for (1) prospective school music teachers; (2) students who desire a broad liberal arts program as cultural enrichment with the emphasis on music in combination with the other arts and humanities; and (3) students who desire a liberal arts base for later advanced specialization; *i.e.*, musicologist, composer, music librarian and college music teacher.

REQUIREMENTS FOR CONCENTRATION

The basic requirements for concentration in Music include 12 credits in Music Theory (Music 201, 202, 301, and 302); 6 credits in Music History (Music 311 and 312); 8 credits in Applied Music Instruction, not less than 6 credits in one field; and other credits in music for a maximum aggregate of 42 as indicated in the special concentration programs or in consultation with the Head of the Department. Proficiency at the Elementary Piano level is considered basic to all programs and is a requirement for graduation. All concentrators in Music are expected to participate in a senior recital, in lieu of which a term paper, an instrumental or choral arranging project, or an original musical composition may be accepted.

Concentrators in Music Education are required to complete Senior level Applied Music Instruction courses in their major applied music field for graduation. In addition, they should complete courses in both instrumental and vocal techniques.

Students preparing for the Virginia State College Professional Certificate are required by the Virginia Board of Education to qualify in general as indicated in the Education section of this catalogue. Upgraded secondary specific endorsement requirements effective July 1, 1968 may be met if Theory and Applied Music Instruction are begun as early as possible. Seldom can these requirements be met in less than a three year period.

SPECIAL CONCENTRATION PROGRAMS IN PREPARATION FOR THE VIRGINIA COLLEGIATE PROFESSIONAL CERTIFICATE IN MUSIC

Applied Music Ensemble	2-3
Music 327—Choral Conducting	1
or	
Music 328—Instrumental Conducting	3
Music 321—Music in the Elementary School	
or	
Music 322—Music in the Secondary School	6-7
Music 323, 324, 325—Instrumental Techniques	
or	
2 Semesters of Instrumental Techniques	
and	6-7
Music 326—Choral Material and Procedures	
16-17	

RECOMMENDED PROGRAMS FOR THE FIRST TWO YEARS

FRESHMAN YEAR

English 101, 102	6
Foreign Language	6-8
Physics 103, 104 is recommended; or Biology, Chemistry, or Geology	8
Music 201, 202—Theory I	6
Applied Music Instruction	2
Physical Education	2
30-32	

SOPHOMORE YEAR

English 201, 202	6
Foreign Language	6
History 101, 102	6
Music 301, 302—Theory II	6
Music 323, 324—Instrumental Techniques	4
Applied Music Instruction (Piano)	2
Physical Education	2
Applied Music Ensemble	2
34	

Special concentration programs are available in Theory and Music History and Literature.

DESCRIPTION OF COURSES

THEORY

101. Introduction to Theory. Lectures two hours; two credits. MR. STEWART.

Fundamental terms and concepts of music, the elements of notation, scales and tone systems. May not be included in music concentration.

102. Introduction to Form and Style. Lectures two hours; two credits. MR. STEWART.

The underlying principles of musical structure. May not be included in music concentration.

***201, 202. Theory I.** Continuous course; lectures two hours; three credits each semester. Lab two hours. MR. STEWART.

Review of theory fundamentals; elementary harmony; the uses of triads, seventh chords and non-chord tones are learned through exercises, dictation, ear training and keyboard harmony.

301, 302. Theory II. Continuous course; lectures three hours; three credits each semester. Prerequisites: Music 201, 202. MR. STEWART.

Advanced harmony, dealing with simple and extended alteration, secondary dominants, and advanced modulation. Second semester, application of harmonic techniques to elementary composition.

401, 402. Form and Analysis. Continuous course; lectures two hours; two credits each semester. Prerequisites: Music 301, 302.

The structural processes and forms of music, studied through analysis of examples of various periods and styles. (Not offered 1969-70.)

403, 404. Orchestration and Choral Arranging. Lectures two hours; two credits each semester. Prerequisite: Music 301. MR. STEWART AND MR. TRUESDELL.

First semester, orchestration; second semester, choral arranging.

405, 406. Counterpoint. Lectures two hours; two credits. Prerequisite: Music 301. MR. TRUESDELL AND MR. STEWART.

First semester; counterpoint in the 16th century style of the motet, the madrigal and the Mass. Second semester, counterpoint in the style of J. S. Bach.

MUSIC HISTORY AND LITERATURE

211, 212. Introduction to Music. Continuous course; lectures two hours; listening and quiz one hour; three credits each semester. MR. PALEDES.

This course is designed to meet the needs of students interested in music, without regard to previous training and experience. It is not open to juniors or seniors concentrating in Music. The course traces the development of the art of music through the various historical periods, and familiarizes the student with the more important composers and their works. A synopsis of style, form, and theory is included. The first semester goes to 1800; the second semester, from 1800 to the present.

***311, 312. History.** Continuous course; lectures three hours; three credits each semester. Prerequisite: Music 201-202. MR. TRUESDELL.

First semester, Ancient Greeks to 1750; second semester, 1750 to present. Includes readings, reports, notated and recorded examples of all periods of western cultures. (Not offered 1969-70.)

313. Great Composers. First semester; lectures two hours; two credits. MR. TRUESDELL.

Major composers and works representative of various styles will be studied. The course is conducted on an intermediate level, and is not open to Music concentrators. (Not offered 1969-70.)

314. The Symphony. Second semester; lectures two hours; two credits. MR. TRUESDELL.

A study of representative symphonic works of various periods; their style, form and orchestral setting. The course is conducted on an intermediate level, and is not open to Music concentrators. (Not offered 1969-70.)

315, 316. Opera. Lectures two hours; two credits. MR. TRUESDELL.

Plots, music, and background of selected masterpieces from the standard operatic repertoire. First semester; Italian *bel canto* and French Grand Opera. Second semester; German Romantic Opera, Wagner, Strauss, Nationalists, and Modern developments. Each semester's work represents an individual unit, conducted on an intermediate level, and not open to Music concentrators.

***411, 412. Advanced Studies in the History of Music.** Either semester. Two or three credits. For seniors only, Prerequisite: 311, 312. MR. TRUESDELL.

Investigation of a particular period, type or style of music; *i.e.*, Renaissance, opera. J. S. Bach, etc.

†413, 414. Problems in Music. Either semester; two or three credits per semester. For seniors only. STAFF.

Individual advanced work under the direction of the instructor.

MUSIC EDUCATION

320. Music for Elementary School Teachers. Both semesters; lectures three hours; three credits. MR. VARNER.

A course designed for prospective general teachers in the elementary grades. Not open to Music concentrators.

***321. Music in the Elementary School.** First semester; lectures three hours; three credits. MR. VARNER.

Problems confronting the teacher of music in the elementary schools, and methods of instruction appropriate to the several grades. Primarily for Music concentrators.

***322. Music in the Secondary School.** Second semester; lectures three hours; three credits. MR. VARNER.

Materials and methods of instruction on the secondary school level.

***323, 324, 325. Instrumental Techniques, Materials, and Methods.** Lectures two hours; two credits each semester. MR. VARNER.

Three semesters are assigned, one each to woodwinds, brass, and strings; the development of performance skills and a study of the materials and methods of teaching. Percussion is correlated throughout the three semesters.

***326. Choral Materials and Procedures.** First semester; lectures three hours; three credits. Prerequisite: Music 201, 202. MR. FEHR.

A study of vocal and choral techniques and teaching methods.

***327, 328. Choral and Instrumental Conducting.** Lecture one hour; one credit each semester. Prerequisite: Music 201, 202. MR. FEHR AND MR. VARNER.

Study and practice in the techniques of the baton; problems of organizing musical groups.

†521, 522. Graduate Seminar in Music. Three credits per semester. STAFF.

Individual advanced work under the direction of the instructor.

APPLIED MUSIC

The College offers individual and group instruction in Voice, and individual instruction in Piano, Organ, Strings, Woodwinds, and Brass.

A maximum of 10 credits may be earned through instruction courses, and a maximum of four credits may be earned through membership in musical organizations. Prerequisite or corequisite for credit in Applied Music is Music 101 or 201, 202, etc. No credit in Applied Music is given until this requirement has been satisfactorily completed. Approval of the Head of the Department is required for all courses and ensembles in Applied Music except auditors in band, orchestra and choral organizations.

Students will be assigned to the course for which they are qualified on the basis of a placement test. Applied Music as an elective earns one credit. Advanced students meeting exceptional standards and requirements may earn two credits.

Individual instruction in Applied Music is given on the basis of 30-minute private lessons once or twice weekly. Minimum preparation for each 30-minute lesson per week is one hour of daily practice.

Schedule of Fees Per Semester

One hour of group instruction per week.....	\$28.00
One 30-minute lesson per week.....	57.00
Two 30-minute individual lessons per week.....	94.00

ENSEMBLE

*131. Band	1 credit	MR. VARNER
*132. Choir	1 credit	MR. FEHR
*133. Chorus	1 credit	MR. FEHR
*134. Orchestra	1 credit	MR. STEWART

CLASS INSTRUCTION

†Voice Class. MR. FEHR.

- 141. I, II. Elementary Voice Class. One or two credits.
- 241. I, II. Intermediate Voice Class. One or two credits.
- 341. I, II. Advanced Voice Class. One or two credits.

INDIVIDUAL INSTRUCTION

†Voice 051-451. MR. ROARK.

- 051. Preparatory Voice. No credit.
- 151. I, II. Elementary Voice. One or two credits.
- 251. I, II, III, IV. Intermediate Voice. One or two credits.
- 351. I, II, III, IV. Advanced Voice. One or two credits.

†Piano 052-452. MRS. CATRON, MR. PALEDES AND MR. TRUESDELL.

- 052. Preparatory Piano. No credit.
- 152. I, II. Elementary Piano. One or two credits.
- 252. I, II, III, IV. Intermediate Piano. One or two credits.
- 352. I, II. Senior Piano. One or two credits.
- 452. I, II, III, IV. Advanced Piano. One or two credits.

†Organ 053-453. MR. DARLING AND MRS. KOLLER.

- 053. Preparatory Organ. No credit.
- 153. I, II. Elementary Organ. One or two credits.
- 253. I, II, III, IV. Intermediate Organ. One or two credits.
- 353. I, II. Senior Organ. One or two credits.
- 453. I, II, III, IV. Advanced Organ. One or two credits.

†Strings 054-454. MR. STEWART.

- 054. Preparatory Strings. No credit.
- 154. I, II. Elementary Strings. One or two credits.

254. I, II, III, IV. Intermediate Strings. One or two credits.
354. I, II. Senior Strings. One or two credits.
454. I, II, III, IV. Advanced Strings. One or two credits.

†Woodwinds 055-455. MR. VARNER AND MR. TORIAN.

055. Preparatory Woodwinds. No credit.
155. I, II. Elementary Woodwinds. One or two credits.
255. I, II, III, IV. Intermediate Woodwinds. One or two credits.
355. I, II. Senior Woodwinds. One or two credits.
455. I, II, III, IV. Advanced Woodwinds. One or two credits.

†Brass 056-456. MR. KOMAN AND MR. REDHAIR.

056. Preparatory Brass. No credit.
156. I, II. Elementary Brass. One or two credits.
256. I, II, III, IV. Intermediate Brass. One or two credits.
356. I, II. Senior Brass. One or two credits.
456. I, II, III, IV. Advanced Brass. One or two credits.



Philosophy

PROFESSOR MACDONALD (*Head of the Department*). ASSOCIATE PROFESSORS FOSTER, HEARN, JONES, McLANE, AND REED. ASSISTANT PROFESSORS COBB AND NYLAND.¹

REQUIREMENTS FOR CONCENTRATION

Students concentrating in Philosophy must take at least 27 credits in Philosophy and three in Psychology. The 27 credits in Philosophy must include Philosophy 201, 202 (The History of Philosophy) and Philosophy 301 (Introduction to Logic).

DESCRIPTION OF COURSES

195, 196. Analysis of Concepts. Continuous course; discussion three hours; three credits each semester. Prerequisites: Freshman standing and consent of the instructor. MR. McLANE.

An introduction to techniques of philosophical analysis through practice in their application to some of the concepts fundamental to Western thought such as: freedom, individuality, nature, symbol, knowledge, law, infinity, education, and value. Informal explication of selected concepts will aim at standards of rigor and precision comparable to what is demanded in the analysis of concepts in formal systems such as natural science and mathematics.

201, 202. The History of Philosophy. Continuous course; lectures three hours; three credits each semester. No prerequisite. MR. MACDONALD AND STAFF.

An historical introduction to philosophy based on readings from the works of such thinkers as Plato, Aristotle, Lucretius, and St. Thomas Aquinas during the first semester; Descartes, Locke, Berkeley, Hume, Kant, and Schopenhauer during the second semester.

295, 296. Sophomore Seminar in Philosophy. Continuous course; seminar two hours; two credits each semester. Prerequisites: Enrollment in Philosophy 201, 202 and consent of the instructor. MRS. REED.

¹ Visiting Assistant Professor, 1968-1969.

Directed reading, discussion, and presentation of papers on subjects of interest to members of the course.

301. Introduction to Logic. Both semesters; lectures three hours; three credits each semester. No prerequisite. **STAFF.**

An introduction to principles of valid reasoning with special emphasis on modern symbolic techniques and their uses.

303. Ethics. Both semesters; lectures three hours; three credits. No prerequisite. **MR. HEARN** or **MR. JONES.**

A philosophical examination of problems and theories about such topics as good and evil, right and wrong, pleasure, choice, duty, happiness, and the good life.

304. Aesthetics. Second semester; lectures three hours; three credits. No prerequisite. **MR. FOSTER.**

A philosophical analysis of the nature of aesthetic experience and its objects. Special attention will be given to apprehension and judgment, concepts and criteria, and meaning and truth in the arts.

305. Social and Political Ideologies. Second semester; lectures three hours; three credits. No prerequisite: **MR. JONES.**

An examination of some of the leading social and political theories of the past one hundred years. Analysis of selected writings of such philosophers as Hegel, Marx, Nietzsche, Lenin, and Spencer.

306. Philosophical Problems. First semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202. **MR. NYLAND.**

A study of such major philosophical problems as those concerning knowledge and reality, morality and conduct, and art and beauty. Special attention will be devoted to philosophical method.

311. Philosophy of Religion. Second semester; lectures three hours; three credits. No prerequisite. **MRS. REED.**

A philosophical investigation of the nature of religious experience, activity, and belief. The course will also include an examination of such concepts as those of God, freedom, and immortality.

313. Introduction to the Philosophy of Science. First semester; lectures three hours; three credits. No prerequisites. **MR. McLANE.**

A philosophical examination of the nature, validity, and significance of scientific inquiry. Special attention will be given to the descriptive, explanatory, and predictive aspects of scientific theories.

321. Existentialism and Phenomenology. First semester; lectures three hours; three credits. No prerequisite. MR. COBB.

An examination of important aspects of existentialism and phenomenology with readings in such philosophers as Kierkegaard, Nietzsche, Husserl, Jaspers, Heidegger, Sartre, and Merleau-Ponty. Some attention will also be given to the impact of these philosophical movements upon contemporary literature, religious thought, and psychology.

322. American Philosophy. First semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or consent of the instructor. MRS. REED.

A study of readings selected from the works of such philosophers as Edwards, Jefferson, Peirce, Royce, James, Dewey, Santayana, and Whitehead.

323. Eastern Philosophy. Second semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or consent of the instructor. MR. FOSTER.

An introduction to the major systems of thought of India, China, and Japan through examination of some of the fundamental philosophical concepts of Hinduism, Jainism, Buddhism, Confucianism, and Taoism.

331. Greek Philosophy. First semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or consent of the instructor. MR. FOSTER.

A critical examination of representative Greek philosophers with special emphasis on Plato and Aristotle.

332. Medieval Philosophy. Second semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or consent of the instructor. (Not offered 1968-69.)

Analysis of selected writings of major medieval philosophers such as Augustine, Erigena, Anselm, Maimonides, Bonaventure, Aquinas, Scotus, and Occam.

333. Continental Rationalism. First semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or consent of the instructor. MR. FOSTER.

A critical examination of representative rationalist systems with special emphasis on Descartes, Spinoza, and Leibniz.

334. British Empiricism. Second semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or consent of the instructor. MR. MACDONALD.

A critical examination of representative theories of empiricism with special emphasis on Locke, Berkeley, and Hume.

335. Early Twentieth Century Philosophy. First semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or consent of the instructor. (Not offered 1968-69.)

An examination of the developments of philosophical thought from approximately 1900 to 1930 (e.g. idealism, realism, pragmatism, voluntarism, logical atomism) with selected readings from the works of representative philosophers of the period.

336. Contemporary Philosophy. Second semester, lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or consent of the instructor. MR. NYLAND.

An examination of major philosophical writing since 1930.

336. Junior Tutorial Seminar in Philosophy. Second semester; lectures three hours; three credits. Prerequisite: Consent of the Department. MR. MACDONALD.

A preparatory course for Honors or advanced work in Philosophy. Supervised study directed toward acquiring precision in the formulation of philosophical issues and familiarity with philosophical literature. Readings, tutorial discussions, and written papers.

401. Theory of Knowledge. First semester; lectures three hours; three credits. Prerequisite: Consent of the instructor. MR. MACDONALD.

An examination of philosophical theories about such topics as the nature and criteria of truth, perception and cognition, meaning, knowledge, and the validation of belief.

402. Metaphysics. Second semester; lectures three hours; three credits. Prerequisite: Consent of the instructor. (Not offered 1968-69.)

The study of such concepts as those of substance and essence, time and eternity, matter and consciousness, truth, cause, and being. Critical examination of theories about such topics as mechanism and teleology, man and his place in nature, and the relation of the mind to the body.

403. Advanced Ethics. Second semester; lectures three hours; three credits. Prerequisite: Consent of the instructor. MR. HEARN.

A study of selected normative and critical problems in moral philosophy.

404. Advanced Logic. Either semester; lectures three hours; three credits. Prerequisite: Philosophy 301 or consent of the instructor. MR. McLANE.

Systematic investigation of topics in logic drawn from such areas as system construction, proof theory, modal and deontic logic, and abstract set theory.

413. Philosophy of Mind. First semester; lectures three hours; three credits. Prerequisite: Consent of the instructor. MR. JONES.

Critical analysis of theories concerning the nature of consciousness, the concept of person and personal identity, and some theories of the relation of the mind to the body. Attention will be devoted to the philosophical relevance of such sciences as psychology, physiology, and cybernetics.

414. Philosophy of Social Science. Second semester; lectures three hours; three credits. Prerequisite: Consent of the Instructor. MR. JONES.

An examination of theories and methods in the social sciences. A comparison with the natural sciences through consideration of such philosophical topics as the nature of explanation, concept formation, confirmation of theories, and the relation of facts to values.

415. Philosophy of History. Second semester; seminar three hours; three credits. Prerequisite: Consent of the instructor. (Not offered 1968-69.)

An investigation of speculative and analytic theories of history. Consideration will be given to such topics as patterns of historical development, the nature of historical change and of historical explanation, cause, and objectivity. Special emphasis will be placed upon the methodological significance of chronicling, describing, explaining, and predicting. (Same as History 452.)

416. Philosophical Problems in Physical Science. Second semester; lectures three hours; three credits. Prerequisite: Either Philosophy 301 and Physics 101, 102 or consent of the instructor. MR. MC-NIGHT.¹

A study of philosophical problems arising in classical physics and relativity and quantum theory. Special attention will be given to such topics as the status of observables, measurement, time, and elementary particles. The philosophical implications of contemporary physics will be discussed. (Same as Physics 416.)

421. The Philosophy of Kant. First semester; lectures three hours; three credits. Prerequisite: Consent of the instructor. MR. MACDONALD.

Intensive study of *The Critique of Pure Reason* and selections from other writings of Kant.

422. Great Philosophers. Either semester; lectures three hours; three credits. Prerequisite: Consent of the instructor. STAFF.

A systematic study of the thought of a great philosopher such as Plato, Aristotle, Spinoza, Hume, or Wittgenstein. The particular philosopher to be studied is designated each time the course is offered.

431, 432. Senior Seminar in Philosophy. Continuous course; seminar three hours; three credits each semester. Prerequisite: Consent of the Department. MR. JONES.

A meeting of the Faculty of the Department with advanced students for the purpose of philosophical investigation. An important modern philosophical work is examined each semester and students are required to write and present papers for critical discussion.

441, 442. Advanced Reading in Philosophy. Both semesters;

¹ Professor of Physics.

hours to be arranged; credits according to the work done. Prerequisites: Eight courses in philosophy and consent of the Department. STAFF.

Individually supervised readings on special topics for advanced students.

HONORS STUDY

495, 496. Honors. Continuous course; honors to be arranged; three credits each semester. Prerequisite: Consent of the Department. STAFF.

Students admitted to Honors Study in Philosophy will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading in the field of the student's major interest; (b) supervised reading of works selected from a general bibliography of philosophy; (c) satisfactory completion of a comprehensive examination covering Logic, History of Philosophy, Ethics or Aesthetics, and Metaphysics or Theory of Knowledge; (d) the preparation and presentation by May 1 of an Honors Essay.



Physical Education for Men

PROFESSOR SMITH (*Head of the Department*), ASSOCIATE PROFESSOR JENSEN. ASSISTANT PROFESSORS AGEЕ, JONES, LINKENAUER, HOOKER AND WITTEN.¹ INSTRUCTORS BESNIER, CARPENTER, DERRINGE, GODLEY, PATTERSON, RANDOLPH, AND SLONE. COLLEGE PHYSICIANS DeBORD AND BROWN.

REQUIREMENTS FOR CONCENTRATION

The minimum number of semester credits required for concentration in Physical Education is 34 and must include Physical Education 203, 308, 310, 313, 413, 316, 412, 408, 411, 494 and Biology 307 and 308. All courses except Physical Education 203 and 208 of the concentration program must be taken during the student's junior and senior years.

Students may elect to take either the B.S. degree or the A.B. degree.

Those students desiring to meet the professional requirements for certification in the State of Virginia should plan their programs with the head of the Department of Physical Education. Students enrolling in professional courses to meet certification requirements in other states should first consult a member of the faculty of the Department of Education.

PROGRAM FOR ADVANCED STUDY

Students who are qualified for advanced study and who have satisfied admission requirements may register for the Master of Arts Degree with concentration in Physical Education or for the degree of Master of Education with emphasis in Education and Physical Education as a related field. (See pages 108, 291.) A minimum residence period of one regular session or of four summer sessions of nine weeks is required.

In addition to the general requirements for admission established by the College, students desiring to enter upon graduate study in Physical Education should present satisfactory undergraduate work in Physical Education or related fields, from a recognized institution.

A minimum of 15 credits of the total 24 submitted for the Master

¹ On leave of absence 1968-1969.

of Arts degree must be in the department of concentration. Other courses should be selected from related departments such as Education, Sociology and Biology, or selected from additional courses in Physical Education. For special requirements of the M.Ed. degree, see page 291 and write to the Dean of the School of Education.

SPECIAL CONCENTRATION PROGRAM LEADING TO STATE CERTIFICATION

FRESHMAN YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Biology 101, or Chemistry 102, or Physics 101, 103	4	Biology 102, or Chemistry 102, or Physics 102, 104	4
English 101	3	English 102	3
Language	3 or 4 ¹	Language	3 or 4 ¹
Mathematics 101	3	Mathematics 102	3
Physical Education	1	Physical Education 102	1
Elective	3	Elective	3
Total Semester Credits	15 to 18	Total Semester Credits	15 to 18

SOPHOMORE YEAR

English 201	3	English 202	3
Economics 201	Two of Four	Economics 202	Two of Four
Government 201 ..		Government 202 ...	
History 102		History 102	
Sociology 201		Sociology 202	
Language	3 or 4 ¹	Language	3 or 4 ¹
Physical Education 203	3	Physical Education 208	3
Physical Education 201	1	Physical Education 202	1
Elective	2	Elective	2
Total Semester Credits	15 to 18	Total Semester Credits	16 to 18

JUNIOR YEAR

Biology 307	3	Biology 308	3
Education 301	3	Education S302	3
Physical Education 309 ²	3	Physical Education 308	3
Physical Education 310	3	Physical Education 321	3
Physical Education 313	2	Physical Education 316	2
Elective	2-3	Elective	2-4
Total Semester Credits	16 to 19	Total Semester Credits	16 to 18

¹ See page 102.

² For Virginia State Certification only; cannot be counted toward meeting AB or BS degree requirements.

SENIOR YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
History 201	3	Education 411 or 404	3
Physical Education 494	3	Physical Education 408	3
Physical Education 411	3	Physical Education 412	2
Physical Education 413	2	Physical Education 414	2
Physical Education 415	3	Physical Education 416	3
Elective	3-4	Elective	3-4
Total Semester Credits	17 to 18	Total Semester Credits	16 to 17

NOTE: Electives may very well be used to help make up a teaching minor. Possible minors are in language, mathematics, science, and social studies.

The above comprehensive program qualifies a person for a number of positions: teaching Physical Education in a consolidated school or a large secondary school; teaching Physical Education and a second subject in a small secondary school; coaching and directing athletics combined with the teaching of another subject or subjects; supervising physical education and recreation programs; summer camp work; and preparation for graduate study in Physical Education or Physical Therapy.

DESCRIPTION OF COURSES

Students concentrating in other departments may elect physical education courses according to interest or to prepare for teaching combinations, recreation work, or other related fields.

101, 102, 201, 202. Required Physical Education. Both semesters; three hours or two double periods; one credit each semester. **STAFF.**

All freshman and sophomore men must register for required Physical Education, and placement in activities will be based on the results of initial skill tests. Students with physical defects will be registered in a special adapted sports class on the recommendation of the college physician. Instruction is given in the following individual and group activities: advanced swimming and life saving, beginning swimming, badminton, basketball, golf, handball, soccer, softball, speedball, tennis, touch football, track and field, tumbling, volleyball, and wrestling. Each student must attain a satisfactory degree of proficiency in one team or group activity, one individual indoor activity, one individual

outdoor activity, and must pass a swimming test. A regulation uniform is required.

203. Playground and Recreational Activities. First semester; lectures and laboratory four hours; three credits. MR. AGEE.

Theory, practice, teaching fundamentals of basic skills and relays of low organization; team and individual activities for both elementary and secondary level. Physical fitness testing.

208. First Aid and Safety. Second semester; lectures and laboratory four hours; three credits. MR. JENSEN.

Standard and Advanced Red Cross First Aid. Certificates awarded upon successful completion of course; safety projects and problems; selection and organization of materials, methods and techniques.

308. Applied Anatomy and Kinesiology. Second semester; lectures three hours; three credits. Prerequisite: Biol. 308. MR. LINKEN-AUGER.

A study of the principles of human motion. Anatomical and mechanical analysis of individual skills in physical education activities.

309. Driver Education.¹ Second semester; lectures and laboratory four hours; three credits. MR. JONES.

Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operation, traffic laws, and regulations. Laboratory will include the use of psychophysical and psychological tests and actual practice-teaching behind the wheel.

310. History and Principles of Physical Education. Either semester; lectures three hours; three credits. MR. JENSEN.

An orientation course in the history and principles of physical education, health, and recreation.

312. Physical Education—General Theory. Second semester; lectures three hours; three credits. MR. SMITH.

Application of teaching fundamentals and techniques. Evaluation of test materials and measurement programs; curriculum construction.

¹ While this course may be taken to fulfill the requirement for state certification in Driver Education, it may not be counted toward meeting requirements for the A.B. or B.S. degree.

313. Advanced Gymnastics and Wrestling. First semester; lectures and laboratory four hours; two credits. MR. PATTERSON and MR. BESNIER.

Tumbling stunts, trampoline, heavy apparatus and body conditioning skills. Pyramid building and exhibition planning. Theory, practice, and coaching in wrestling.

316. Theory and Coaching of Baseball, Track and Field. Second semester; lectures and laboratory four hours; two credits. MR. JONES and MR. RANDOLPH.

Study of approved techniques in coaching baseball, track and field in all phases. Acquisition of advanced skills and competencies.

318. Sports Officiating. Either semester; lectures and laboratory four hours; two credits. MR. JONES.

Analysis of the rules, officiating techniques and problems solving in officiating team sports. A minimum of twelve contact hours of practical experience in supervised officiating in the intramural program is required.

321. Foundations of Health Education. Either semester; lectures three hours; three credits. MR. SMITH.

Instructional concepts applicable to health education for various age levels, organization of classes, selection of content and evaluation of outcomes. Survey of State Department publications and other resource material.

408. Organization and Administration of Health and Physical Education Programs. Second semester; lectures three hours; three credits. MR. SMITH.

Organizational and administrative policies and procedures for physical education, health, and intramural programs in junior and senior high schools.

409. Organization and Administration of Community Recreation Programs. First semester; lectures three hours; three credits. MR. CARPENTER.

Administrative policies and procedures; legal aspects; public rela-

tions; qualifications and duties of personnel; study of federal, state and local agencies.

411. Therapeutic Physical Education. First semester; lectures three hours; three credits. Prerequisite: Biol. 308. MR. SMITH AND MR. LINKENAUER.

Physical examinations with emphasis placed on the recognition of normal and faulty postural conditions at various age levels. Special attention given to remedial exercises and adaptive activities, theory and practice of taping and massage, techniques and modalities in physical therapy and their application to physical education injuries.

412. Theory and Coaching of Football and Basketball. Second semester; lectures and laboratory four hours; two credits. MR. AGEE.

Theory, practice, and coaching methods; team problems.

413. Advanced Tennis and Golf. First semester; lectures and laboratory four hours; two credits. MR. DERRINGE and MR. AGEE.

Theory, practice and coaching methods and techniques.

414. Advanced Swimming and Rhythmics. Second semester; lectures and laboratory four hours; two credits. MR. PATTERSON.

Theory, practice, coaching methods and techniques in swimming and diving. Red Cross Water Safety Instructor Certificate may be earned. Fundamental rhythmics, folk and square dancing.

415, 416. Student Teaching. Continuous course; five hours; three credits each semester. Prerequisites: senior standing, nine credits in Education; fifteen semester credits in Physical Education. MR. SMITH.

Daily observation and teaching at the laboratory school. Weekly conferences, special assignments and reports.

492. Physiology Activity. Graduate credit. Either semester; lectures three hours; three credits. Prerequisite: Biol. 305, or the equivalent. MR. LINKENAUER.

Physiological aspects of exercise, fatigue, coordination, training and growth; functional tests with normal and abnormal subjects; investigations and independent readings.

493. Philosophy and Literature in Health, Physical Education and Recreation. Graduate three credits. Either semester; lectures three hours; three credits. MR. JONES.

Extensive readings, discussions and evaluations of historical and current philosophies and practices; educational implications of problems facing the separate fields.

494. Test and Measurements in Health, Physical Education and Recreation. Graduate three credits. Either semester; lectures three hours; three credits. Prerequisite: Education 414 or approval of instructor. MR. JONES.

Evaluation techniques which may be employed in health education and physical education. Emphasis is placed on tests of physical fitness, sports ability, body mechanics, growth, and written health tests. History of tests and measurements, organization of tests and measurements program and classification and grading practices.

502. Problems and Research in Health, Physical Education and Recreation. Either semester; lectures three hours; three credits. Prerequisite: Education 501 or the equivalent. MR. SMITH.

The application of various methods and statistical techniques as most commonly used in physical education research. Limited research studies and problems are conducted in the three areas.

503. Seminar in Advanced Techniques in Sports. Either semester; lectures three hours; three credits. MR. HOOKER.

Consideration given to the designing of plays, types of strategy, and instruction and handling of players.

506. Administration and Supervision in Physical Education, Health and Recreation. Either semester; lectures three hours; three credits. MR. SMITH.

Problems of administration and supervision in the three areas, modification of programs to fit the facilities available, curriculum planning, grading procedures and techniques of instruction.

508. Health Coordination. Either semester; lectures three hours; three credits. MR. SMITH.

Factors of school and community activities related to health. Relationships of the service, instructional, protective, and guidance phases in the health program.

MEDICAL ATTENTION

The College will not be responsible for doctors' bills for medical attention of any kind for students who are injured in Intramural Sports, Intercollegiate Athletics or Physical Education classes, except such attention as is furnished by the College physician and resident nurses.



Looking across to Washington Hall from the Barrett Hall porch

Physical Education for Women

PROFESSOR REEDER (*Head of the Department*). ASSOCIATE PROFESSOR WEST. ASSISTANT PROFESSORS ARCHER, CROWE, HAUSSERMANN, ROBY, AND WALLACE. INSTRUCTORS ALEWYNSE, GITELMAN, AND TOMLINSON. COLLEGE PHYSICIAN DeBORD.

All freshmen and sophomores must register for Physical Education. Proficiency must be established in team sports, individual sports, swimming, and dance. Placement in activities is based upon recommendation of the college physician. A regulation uniform is required.

DESCRIPTION OF COURSES

101. Team Sports. Both semesters; two double periods; one credit. MISS ARCHER, MISS CROWE, AND MISS HAUSSERMANN.

Seasonal activities; hockey, basketball, volleyball, and lacrosse.

102. Dance. Both semesters; two double periods; one credit. MRS. ALEWYNSE, MISS ROBY, AND MISS WALLACE.

Fundamentals of modern dance.

†145, 146. Adapted Activities. First and second semesters; two double periods; one credit each semester. MISS REEDER.

Upon recommendation of the College physician these courses may be substituted for required courses.

†195, 196. Selected Sports and Dance Activities. First and second semester; two double periods; one credit. MISS REEDER.

Upon recommendation of the head of the Department, these courses (designed for proficient students) may be substituted for required courses.

201. Swimming. Both semesters; two double periods; one credit. MISS CROWE, MISS REEDER, MISS TOMLINSON and MRS. WEST.

Safety skills, standard swimming strokes, diving, life saving techniques.

202. Individual Sports. Both semesters; two double periods; one credit. MISS ARCHER, MISS CROWE, MISS HAUSSERMANN, MISS REEDER, MISS TOMLINSON and MRS. WEST.

Seasonal activities: archery, tennis, fencing, badminton, bowling, body mechanics, and golf.

ELECTIVE COURSES IN PHYSICAL EDUCATION FOR WOMEN

The following courses are intended to supplement the four semesters of required physical education and may be elected for academic credit. These courses are open to juniors and seniors, and may be elected concurrently with a required class by sophomores. Freshmen may elect these courses in addition to required work with permission of the head of the Department.

302. Waterfront Leadership. Second semester; lectures and laboratory, four hours; two credits. Prerequisite: Senior Life Saving (students should be at least nineteen years of age). MRS. WEST.

Especially designed for students who wish to do camp and playground work and includes Instructor's courses of the American Red Cross.

303, 304. Coaching and Officiating of Selected Sports. Both semesters; lectures and laboratory four hours; two credits each semester. Prerequisite: Proficiency in two of the following sports: hockey, basketball, tennis, swimming, softball, and volleyball. MISS REEDER.

Theory and practice in the coaching and officiating of two seasonal sports each semester. Women's National Officials Rating Tests will be given.

ELECTIVE COURSES IN DANCE

These courses supplement the required courses in Physical Education and may be elected for academic credit by men and women with the consent of the instructor.

DESCRIPTION OF COURSES

TECHNIQUE. These courses are designed to develop an understanding of movement as an art form and means of expression, beginning with movement fundamentals and continuing through longer and more complex phases with emphasis on performance. Students will be assigned

to the course for which they are qualified on the basis of previous background and demonstrated ability. A maximum of 12 credit hours may be earned in Technique.

111, 112. Elementary Modern Dance Technique. Studio four hours; two credits each semester. STAFF.

211, 212. Intermediate Modern Dance Technique. Studio four hours; two credits each semester. STAFF.

311, 312. Advanced Modern Dance Technique. Studio four hours; two credits each semester. STAFF.

220. Introduction to Contemporary Dance. First semester; lectures two hours; two credits. MISS WALLACE.

An introduction to the field of Modern Dance with emphasis on the stylistic approach and aesthetic of the artists who have contributed to its development in the twentieth century.

305, 306. Dance Composition. Continuous course; lectures and laboratory, four hours; two credits each semester. Prerequisite: Physical Education 102. MISS ROBY.

First Semester: An introduction to the elements, materials and structure of a dance composition.

Second Semester: Composition of dance etudes; form and style related to other modern arts.

406. Problems in Dance. Second semester; three credits. MISS ROBY and MISS WALLACE.

Directed study in a special area for the advanced student arranged on an individual basis. The course would include a substantial choreographic project or a research project for a student with special interest and ability in a related field, such as music, theatre, or fine arts.

WOMEN'S SPORTS

Recreational activities are conducted under the auspices of the Women's Athletic Association, with executive power assigned to a committee of faculty and students. (See page 71.)

MEDICAL ATTENTION

The College will not be responsible for doctor's bills for medical attention of any kind for students who are injured in athletics or Physical Education classes, except such attention as is furnished by the College Physician and resident nurses.



Physics

PROFESSORS WINTER (*Chairman of the Department*), CROWNFIELD, FUNSTEN, MCKNIGHT, SIEGEL, AND WELSH. ADJUNCT PROFESSOR LAWRENCE. ASSOCIATE PROFESSORS CRAWFORD, ECKHAUSE, LONG, SCHONE, SHER, AND SMITH. ASSISTANT PROFESSORS ANDERSEN, BLOOMBERG, CHAMPION, DOVERSPIKE, KANE, PERDRISAT, REMLER, SOEST, VON BAEYER, WEISZ, AND YAM. RESEARCH ASSOCIATE CARROLL. RESEARCH ENGINEER HUMMEL.

REQUIREMENTS FOR CONCENTRATION

Students desiring to concentrate in Physics should take Physics 101 and 102 during their freshman year. A minimum of 38 credits, including not more than eight hours of 100-level courses, is required for concentration in Physics. The normal program for concentration includes Physics 101, 102, 201, 202, 251, 252, 301, 302, 351, 352, 401, 402, 451 and 452, and selections from 311, 312, 411, and 412. Either Physics 451-452 or Physics 495-496 are required. It is strongly recommended that students planning to concentrate in Physics elect calculus in the freshman year.

DESCRIPTION OF COURSES

101-102. General Physics. Continuous course; lectures, recitation and laboratory six and one-half hours; four credits each semester. MR. SCHONE and STAFF.

Mechanics, heat, and sound first semester. Electricity, light and modern physics second semester. Required of all students concentrating in physics, all pre-medical students, and all students preparing for engineering. Separate honors sections of this course are open to students who have had a strong high school course in physics and are concurrently enrolled in calculus. The laboratory of these special sections stresses the techniques of electronic measurement used in physics. Students concentrating in one of the sciences or mathematics who choose physics for satisfying the distribution requirements should enroll in Physics 101-102, not Physics 103-104.

103-104. Elementary Physics. Continuous course; lectures, recitation and laboratory six and one-half hours; four credits each semester. MR. CRAWFORD and STAFF.

A beginning course in College Physics satisfying the distribution requirements in the field of science. Designed for the non-science concentrator. Mechanics, heat and sound first semester; electricity, light and atomic physics second semester. Attention is given to the historical development and philosophical significance of physical concepts and theories. Applications to elementary problems. The role of physics in the modern world.

176. Descriptive Astronomy. Second semester; lectures three hours; three credits. MR. SMITH.

Descriptive study of the solar system; theories of the origin of the solar system. Star classification; descriptive studies of star clusters and galaxies. An elective course not counting toward a concentration in Physics.

201-202. Intermediate Physics. Continuous course; lectures three hours; three credits each semester. Prerequisite: two semesters each in physics and calculus. Corequisite: Physics 251-252. MR. WELSH and MR. BLOOMBERG.

Vector mechanics, potentials, relativity, photoelectric effect, wave nature of electron and Bohr atom first semester. Geometrical and physical optics, interference, diffraction and developments in modern optics second semester.

203. Modern Physics. First semester; lectures and laboratory six hours; four credits. Prerequisite: two semesters of physics and one semester of calculus. MR. CRAWFORD.

Review of classical physics; relativity, introduction to quantum physics, recent developments in physics. This course is designed for prospective secondary school teachers and may not count for concentration in physics.

204. Optics and Other Wave Phenomena. Second semester; lectures and laboratory six hours; four credits. Prerequisite: two semesters of physics and one semester of calculus. MR. CRAWFORD.

Applications of Snell's law; optical instruments, photography, interference phenomena, lasers. This course is designed for prospective secondary school teachers and may not count for concentration in physics.

251-252. Intermediate Experimental Physics. Continuous course; laboratory three hours; one credit each semester. Corequisite: Physics 201-202. MR. CROWNFIELD and MR. KANE.

Experiments in atomic, nuclear and solid state physics, geometrical and physical optics, interference and diffraction phenomena and atomic spectra.

301-302. Classical Mechanics. Continuous course; lectures three hours; three credits each semester. Prerequisite: Physics 201-202. MR. WINTER.

Plane mechanics, mechanics in three dimensions, Lagrangian and Hamiltonian mechanics, special relativity and the mechanics of continuous media.

311. Thermodynamics and Introduction to Statistical Mechanics. First semester; lectures three hours; three credits. Prerequisite: Physics 201-202. MR. SOEST.

The principle of thermodynamics, kinetic theory of gases, elementary statistical mechanics.

312. Introduction to Modern Physics. Second semester; lectures three hours; three credits. Prerequisite: Physics 201-202. MR. REMLER.

Atomic, nuclear and solid state physics.

351-352. Experimental Physics. Continuous course; laboratory three hours; one credit each semester. MR. CHAMPION and MR. LONG.

Introduction to the techniques of experimental research. Circuit theory, electronics, thermometry, vacuum techniques and photon and particle detection. Design and construction of experiments. Evaluation and analysis of experimental results.

401-402. Electricity and Magnetism. Continuous course; lectures three hours; three credits each semester. Prerequisite: Physics 301-302. MR. ECKHAUSE.

Development of the theory of electricity and magnetism from fundamental principles. Maxwell's equation, electromagnetic waves and radiation.

411-412. Quantum Physics. Continuous course; lectures three

hours; three credits each semester. Prerequisite: Physics 301-302, and 312. MR. McKNIGHT.

The quantum theory in its application to atomic, solid state and nuclear physics.

416. Philosophical Problems in Physical Science. Second semester; lectures three hours; three credits. Prerequisites: Either Phil. 301, 305 or Phys. 101, 102, or consent of instructor. MR. McKNIGHT.

A study of philosophical problems arising in experiment and theory in classical physics, quantum theory and relativity as the status of observables, measurements, time and elementary particles. Philosophical implications of contemporary physics. (Same as Philosophy 416.)

451-452. Physics Research. Continuous course; hours to be arranged; one credit each semester. STAFF.

Independent study consisting of both bibliographic and experimental research.

475. Introduction to Mathematical Physics. First semester; lectures three hours; three credits. MR. VON BAEYER.

Vector analysis, complex variables, matrices, series solutions of differential equations, orthogonal functions and partial differential equations. This course does not carry undergraduate credit in Physics.

481-482. Topics in Physics. Either semester; hours and credits to be arranged. STAFF.

495, 496. Honors. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Physics will be enrolled in this course during both semesters of their senior year. Each candidate will be responsible for (a) reading and discussion of a selected list of books in some specific area of the literature of physics; (b) the preparation and presentation by May 1 of an Honors Essay based on his own research or his part of a major research project; (c) satisfactory completion of a comprehensive examination in the field of the student's major interest.

MASTER OF ARTS AND MASTER OF SCIENCE DEGREE IN PHYSICS

The candidate for the degree of Master of Arts and Master of Science in Physics must meet the following requirements in addition to the general requirements stated on pages 107-109 of this catalogue.

The candidate must complete a program of courses recommended by the Department. This program depends on the candidate's preparation and special interests, but will frequently include Physics 501, 505, 509, 510, 516 and 521.

The candidate must be able to read scientific literature in French or German or Russian.

The candidate must pass a qualifying examination dealing with undergraduate material, the content of first year courses, and information that a first-year student should have obtained from seminars, colloquia, and journals.

The candidate is required to register for Physics 580, Colloquium, during a minimum of one semester of residence.

The thesis topic must be chosen and work begun in consultation with the Physics Department staff. Work completed while working elsewhere may be used as a thesis provided the above requirement is met.

Candidates enrolled in a program leading to the Master of Science degree are required to substitute eight semester hours of prescribed courses for the thesis.

DOCTOR OF PHILOSOPHY DEGREE IN PHYSICS

The candidate for the degree of Doctor of Philosophy in physics must meet the following requirements in addition to the general requirements stated on pages 109-110 of this catalogue:

The candidate must complete a program of courses recommended by the Department. This program depends on the candidate's preparation and special interests, but will frequently include, in addition to the master's level courses, Physics 506, 511, 512, 522 and a variety of specialty courses appropriate to his research areas.

The candidate must be able to read scientific literature in two of the three languages, French, German, and Russian.

The candidate must pass examinations that test his familiarity with the principal fields of physics. Details of procedure will vary; it is generally required that the candidate have high standing in the master's qualifying examination and that in addition he demonstrates competence in several advanced topics.

Dissertation research must be done under the supervision of the faculty of the Department. The dissertation must be an original and substantial contribution to knowledge in the field of physics. The candidate must successfully defend his dissertation in a public oral examination.

GRADUATE COURSES

501. Classical Mechanics. First semester; lectures three hours; three credits. MR. ANDERSEN.

505, 506. Classical Electricity and Magnetism. Continuous course; lectures three hours; three credits each semester. MR. DOVER-SPIKE.

509, 510. Quantum Mechanics. Continuous course; lectures three hours; three credits each semester. MR. WEISZ.

511, 512. Advanced Quantum Mechanics. Continuous course; lectures three hours; three credits each semester. Prerequisite: Physics 510. MR. REMLER and MR. ANDERSEN.

516, 517. Statistical Physics and Thermodynamics. Lectures three hours; three credits each semester. Prerequisite: Physics 501 and Physics 509. MR. CROWNFIELD.

521, 522. Mathematical Physics. Continuous course; lectures three hours; three credits each semester. MR. MCKNIGHT.

531, 532. Solid State. Two semesters; lectures three hours; three credits each semester. Prerequisite: Physics 510, 516. MR. SHER.

541, 542. Advanced Nuclear Physics. Lectures three hours; three credits each semester. Prerequisite: Physics 510. MR. PERDRISAT.

543. Introduction to Elementary Particle Physics. Lectures three hours; three credits either semester. MR. YAM.

545, 546. High Energy Physics. Lectures three hours; three credits each semester. MR. YAM.

555. Atomic Spectroscopy. First semester; lectures three hours; three credits. Prerequisite: Physics 509. MR. CHAMPION.

556. Molecular Spectroscopy. Second semester; lectures three hours; three credits. Prerequisite: Students are strongly advised to have completed Physics 555 before enrolling in this course. MR. CHAMPION.

560. Master's Thesis. Hours to be arranged.

561. Introduction to Astrophysics. First semester; lectures three hours; three credits. Prerequisite: Physics 501, 510. MR. LAWRENCE.

564. Physics of the Upper Atmosphere. Lectures three hours; three credits. MR. LAWRENCE.

571. Theory of Ionized Gases. Lectures three hours; three credits. Prerequisite: consent of the instructor. MR. BLOOMBERG.

572. Plasma Physics. Lectures three hours; three credits. This course may be repeated for credit when the instructor determines that this will not be prohibited by the duplication of material. MR. BLOOMBERG.

580. Colloquium. All semesters; hours to be arranged.

585. Research. Any semester; hours and credits to be arranged.

591. Special Topics in Physical Optics. First semester; lectures three hours; three credits. STAFF.

592. Applied Spectroscopy. Second semester; lectures three hours; three credits. STAFF.

660. Doctoral Dissertation. Hours to be arranged.

Complete course descriptions for graduate courses are contained in the Graduate Studies Bulletin. For a copy of this Bulletin, write to the Dean of Graduate Studies.

Psychology

PROFESSORS WILLIAMS (*Head of the Department*), HARCUM, JOHNSTON, AND LAMBERT. ASSOCIATE PROFESSORS DERKS, ¹ FRIEDMAN, McKENNA, AND NORMAN. ASSISTANT PROFESSORS BAUER, RIDDLE, SHAVER, AND SHEAN. LECTURERS ASHBURY, HANIMACK. LAB TECHNICIAN DAW.

REQUIREMENTS FOR CONCENTRATION

Degree of Bachelor of Arts: 30 credits in Psychology including 201, 202, 301, 302, 331, one senior 400-level course, one or more hours of Research 421 and one seminar each of the last two semesters, except for variations allowed in senior year for Honors students and certain others with permission.

Degree of Bachelor of Science: Concentration requirements for the B.S. are those listed above for the A.B. but in addition the student must meet the distribution requirements for the B.S. degree (pages 101-103). The preferred science is Biology.

Normal Program for Concentration: Sophomore year 201-202; Junior year 301, 302, 331, electives; Senior year at least five hours each semester (one course and one seminar plus Research 421).

Students who expect to enter psychology as a profession are advised to continue graduate study toward the M.A. or the Ph.D. degree. Whether or not they concentrate in psychology in college, they will be expected by most graduate schools to have completed the equivalent of 301, 302, and 331 as a minimal preparation in experimental psychology and statistics. Many graduate schools will desire 403 and 404.

DESCRIPTION OF COURSES

201, 202. Principles of Psychology. Continuous course; lectures two hours; laboratory-discussion two hours; three credits. MR. DERKS, MR. McKENNA, and STAFF.

201 is a study of the basic principles of behavior and perception, with emphasis on the biological basis of behavior, sensory processes, conditioning and learning, drives and motivation, response mechanisms.

¹On leave of absence 2nd semester 1968-69.

202 is a continuation of principles of behavior with emphasis on integrative processes; development, social processes, thinking and judgment, motivation, emotion, self- and personality-theory.

†201H, 202H. **Principles of Psychology.** Continuous course; lectures two hours; laboratory-discussion two hours; three credits. MR. JOHNSTON and STAFF.

This is a special section of Psychology 201-202 planned for the special needs of Honor students.

†201H, 202H. **Principles of Psychology.** Continuous course; lectures two hours; laboratory-discussion two hours; three credits. This is a special section of Psychology 201-202 planned for the special needs of Honors students. MR. JOHNSTON and STAFF.

†211, 212. **Sophomore Research Seminar.** Hours to be arranged; one credit. Taken with Psychology 201, 202 by those interested in extra study and independent scholarship. Enrollment by invitation only. Recommended to concentrators. MR. FRIEDMAN and STAFF.

INTERMEDIATE COURSES

Prerequisites: Normally 201-202 but one of these may be waived by consent of instructor.

301, 302. **Experimental Psychology.** Lectures three hours; laboratory three hours; four credits. MR. HARCUM.

This course presents information obtained by psychological research on the basic attributes of behavior, with emphasis on the methods by which the facts are obtained.

303. **Industrial and Applied Psychology.** First semester; lectures three hours; three credits. MR. WILLIAMS.

Psychology applied to industrial and military organizations. Types and uses of psychological tests in selecting and classifying personnel; methods of efficient work; the design of machines and communication systems for human use; industrial training.

304. **Social Psychology.** Both semesters; lectures two hours; laboratory-discussion one hour; three credits. MR. SHAVER.

The effect of social context on the behavior of the individual, with

emphasis on prominent theories and research. Some demonstration experiments will be performed and the relevance of social psychology for contemporary social issues will be considered.

307. Developmental Psychology. Both semesters; lectures two hours; lab-discussion one hour; three credits. MR. NORMAN, MRS. BAUER.

A study of human development from birth to maturity, with emphasis on physiological, social, emotional and intellectual processes. Both factual and theoretical approaches are considered.

310. History of Psychology. Second semester; lectures three hours; three credits. MR. WILLIAMS.

From Aristotle to 1935 with special emphasis on the 19th and early 20th century. The rise of the major schools of thought: Structuralism, Functionalism, Gestalt psychology, Psychoanalysis and Behaviorism.

***312. Educational Psychology.** Second semester; lectures three hours; three credits. STAFF.

Individual differences and principles of testing are emphasized in the context of psychological methods and educational philosophy.

331. Statistics, Measurement and Testing. Both semesters; lectures two hours, laboratory two hours; three credits. MR. FRIEDMAN.

An introduction to statistics, both descriptive and inferential, including non-parametric tests of significance and simple correlation. Basic principles of psychophysics and psychometric functions and their relation to theory and test construction and item analysis, with a brief introduction to hypothesis testing and decision theory.

ADVANCED COURSES

Can be taken for graduate credit. Prerequisites: Nine to twelve hours of psychology including 201, 202, or equivalent evidence of maturity in psychology or cognate subjects, as judged by instructor.

403. Systematic Psychology. First semester; lectures three hours; three credits. MR. DERKS.

A survey of contemporary theory in Psychology with emphasis on its empirical foundations and future possibilities.

404. Physiological Psychology. First semester; lectures two hours; laboratory two hours; three credits. MR. BAUER.

A survey of some of the physiological mechanisms underlying behavioral processes. In particular, the physiological bases of sensation and perception, of motivation and emotion, and of learning are reviewed. Laboratory time is devoted to demonstrations and use of procedures and techniques in experimental physiological psychology.

405. Abnormal Psychology. Both semesters; lectures three hours; three credits. MR. SHEAN.

A survey of behavior pathology emphasizing the neuroses and the functional psychoses and their relationship to current conceptions of normal personality functioning.

410. Personality Theory. Second semester; lectures three hours; three credits. MR. McKENNA.

A survey of major historical and contemporary theories will be supplemented by intensive consideration of one or more current approaches to the understanding of personality. Reference will be made to both experimental and life history data.

431. Quantitative Methods. Second semester; lectures two hours; laboratory three hours; three credits. MRS. BAUER, MISS RIDDLE.

An advanced course in statistical analysis and experimental design.

SEMINARS AND INDEPENDENT STUDY

420. Topical Seminars. Both semesters; hours to be arranged; two credits. STAFF.

Each semester either one seminar or two courses on special topics will be offered covering a variety of areas: perception, motivation, learning, social influence, language and thought, psychological testing, and great psychologists. Senior concentrators are required to take at least one seminar and either a second seminar or a special topic.

+421. Research. Both semesters; hours to be arranged; credit according to work undertaken. STAFF.

Independent study which may consist of bibliographic or experimental research. Senior concentrators are required to take this course

for at least one credit, usually in connection with a 420 seminar or topic.

†495, 496. **Honors.** Continuous course; hours to be arranged; six credits. Prerequisite: Grade average of B during first two years or junior year and permission of department. STAFF.

A student admitted to Honors Study is eligible for an award of Honors in Psychology on graduation. He will ordinarily be enrolled during both semesters of the senior year for three credits each semester. He may under special circumstances be enrolled only in the second semester for six credits.

Honors is independent study comprising (a) supervised reading in the field of the student's major interest, primarily in the original literature; (b) the preparation and presentation by May 1 of an Honors Essay based on the student's own research; and (c) satisfactory completion of a comprehensive examination in the field of the student's major interest.

GRADUATE PROGRAM

A student in his first year of graduate study will enroll in 501, 502, and in any advanced senior course which he may not have had. The comprehensive examination in general psychology, 501, 502, covers all phases of psychology and serves as an assessment of the student's total preparation for advanced study and advancement to degree candidacy. The first year student may also enroll in 521, Research so that he may begin to develop his own research interests. He must also satisfy the department that he possesses a reading knowledge of a foreign language before he can be admitted to candidacy for the M.A. degree.

The second year student will enroll in 503, 504, 521, and in 560, and he may enroll in 510-513. By the beginning of the second year, he must have satisfied the language requirement and be ready to defend a proposal for thesis.

Students are encouraged to use the first graduate year as a fifth-year preparation for continued study toward the Ph.D. whether or not they stay for a second graduate year at the College. Continuance at the College will ordinarily result in the M.A. degree at the end of the

second year but the degree itself is a pre-doctoral degree and is not stressed as much as preparation for advanced study.

†501, 502. Proseminar in General Psychology. Continuous course; three credits each semester. Prerequisite: first-year graduate standing. STAFF.

An intensive reading course, based on a prepared syllabus, including handbooks and advanced texts as well as selected original literature. Topics are the functional divisions of behavior; conditioning, learning, remembering, problem solving, preceiving, motivation and emotion. Seminar discussions emphasize methods and history as well as current knowledge. A comprehensive examination is required; it serves as a qualifying examination for further graduate study.

†503, 504. Seminar in Psychology. Continuous course; three credits each semester. STAFF.

Selected topics in psychology with emphasis on current literature and original sources.

†510, 511. Practicum in Advanced Abnormal Psychology. Credit and hours to be arranged. STAFF.

This is based on the practical experience gained as a student intern at Eastern State Hospital for which graduate credit may be awarded as appropriate. Typically there is an opportunity to learn diagnostic testing of intellectual functioning, to engage in tutorial discussions of case material, in directed reading, and occasionally to gain an introduction to projective techniques. It is not a program of training in clinical techniques nor does it constitute an internship in clinical psychology.

†521. Research Problems in Psychology. Credit to be arranged. STAFF.

Course may be repeated. Research may be carried out either at the College or the Eastern State Hospital. It may consist of experiments, research papers, or reviews of original literature.

†560. Thesis. Prerequisites: 501, 502; second year standing; and candidacy for the M.A. degree. The M.A. candidate must defend a formal proposal for his thesis; this defense will be scheduled at the beginning of the second year of study.

Religion

ASSOCIATE PROFESSOR LIVINGSTON (*Head of the Department*). ASSISTANT PROFESSOR HOLMES.

DESCRIPTION OF COURSES

201. Introduction to Religion. First semester; lectures three hours; three credits. MR. LIVINGSTON. (Not offered 1968-69.)

Religion as a dimension of human experience and culture. The beginnings of religion. Theories of the nature and function of religion. Types of religious phenomena: the sacred or holy; deity; myth, ritual and sacrament; law, faith and mystical insight. Relationship of religion to philosophy, science and art.

209. The Eastern Religions. Second semester; lectures three hours; three credits. MR. LIVINGSTON.

Introduction to the beginnings, major developments and current beliefs and practices of the living religions of India and the Far East. Concentrates on Hinduism and Buddhism but also studies Taoism, Confucianism, Shinto and the contemporary popular religions of Japan.

219. The Old Testament. First semester; lectures three hours; three credits. MR. HOLMES.

A literary and historical study of the major features of Hebrew-Jewish religion in the Old Testament and intertestamental periods. With special attention to Israel's relation to the cultures and religions of the Ancient Near East.

220. The New Testament. Second semester; lectures three hours; three credits. MR. HOLMES.

A study of the beginnings of Christianity in the New Testament. Includes analysis of the relation of primitive Christianity to Judaism and Hellenistic culture, the formation of the Gospels, the life and teachings of Jesus, the Pauline writings, and the emergence of post-apostolic Christianity.

305. History of Christianity: The Classical Period. First semester; lectures three hours; three credits. MR. HOLMES.

A history of Christian thought and institutions from the second century through the Reformation. Emphasis on the beginnings of Catholic doctrine; the Christological and Trinitarian controversies; Augustine; Early and High Scholasticism; Luther and Calvin.

306. History of Christianity: The Modern Period. Second semester; lectures three hours; three credits. MR. LIVINGSTON.

Particular attention is given to the effect on Christian thought and institutions of such modern movements as Rationalism, Evangelicalism, Romanticism, Darwinism, Totalitarianism, Existentialism and Ecumenism.

309. History of Religion in America. Second semester; lectures three hours; three credits. MR. HOLMES.

An intellectual and institutional history of organized religion in the United States, with emphasis on the history and beliefs of selected denominations and sects.

425. Contemporary Religious Thought. First semester; lecture and seminar; three credits. MR. LIVINGSTON.

Central themes in twentieth century religious thought examined through the works of several significant thinkers, such as Buber, Tillich, Marcel, Niebuhr, Teilhard de Chardin, Bultmann, D. T. Suzuki.

Secretarial Science

ASSOCIATE PROFESSOR LOTT.

The following courses in Shorthand and Typewriting are open to students as elective courses, regardless of their fields of concentration. It is strongly recommended that students who plan to work as secretaries begin this course in their junior year or earlier. College credit is given for the courses as indicated. These courses may be taken as part of a student's regular schedule.

Personal Typewriting is open to any student and is taken without credit.

SHORTHAND AND TYPEWRITING

301, 302. Fundamentals of Shorthand and Typewriting.¹ Each course offered both semesters; three credits. Miss LOTT.

Fundamentals of Gregg Shorthand Simplified and the touch system of typewriting. Taking shorthand from dictation and transcribing notes stressed in second semester.

401. Advanced Shorthand and Secretarial Practices. First semester; lectures three hours; three credits. Prerequisites: Sec. Sci. 301, 302, or knowledge of elementary shorthand and typewriting. Miss LOTT.

Advanced shorthand and typing with emphasis on developing speed and accuracy in taking dictation and transcribing notes; office machines.

402. Secretarial Practice. Second semester; lectures three hours, laboratory three hours; three credits. Prerequisite: Consent of instructor. Miss LOTT.

Training for a professional secretarial career. Correct application of basic skills; use of reference materials; study of duties and personal requirements for responsible secretaries; use of transcription machines. Shorthand is not a prerequisite.

¹Students who have not had typewriting previously must take three hours of typewriting per week; no credit given for typewriting.

PERSONAL TYPEWRITING

101. Personal Typewriting. Both semesters; two hours a week; no credit. Miss LOTT.

This course is designed to give training in the fundamentals of touch typewriting with special emphasis on typing term papers, outlines and business letters.



Sociology

PROFESSORS KERNODLE (*Head of the Department*), GRAY AND E. RHYNE.
ASSOCIATE PROFESSORS EDMONDS AND VANFOSSSEN. ASSISTANT PROFESSORS BECK, BECKHOUSE, GUENTHER, ITO, LIGUORI, L. RHYNE, AND THEMO. INSTRUCTOR HERZOG.

REQUIREMENTS FOR CONCENTRATION

Concentration in Sociology requires a minimum of thirty-three semester credits and must include: 201, 202, 303, 307, 401, 402, or 495, 496.

DESCRIPTION OF COURSES

201, 202.¹ General Sociology. Continuous course; lectures three hours; three credits each semester. STAFF.

An introduction to the study of human society. The basic concepts of society, culture, and personality and their relationships to one another are developed in the first semester. In the second semester these concepts are used to examine and analyze the major social institutions in human society. Political, economic, religious, and familial institutions are studied as well as additional concepts of social class, caste, and social change.

†201H, 202H. General Sociology. Continuous course; lectures and discussion three hours; three credits each semester. STAFF.

This is a special section of General Sociology 201-202 designed for Honors students.

303. Sociological Theory. First semester; lectures three hours; three credits. MR. KERNODLE AND MR. VANFOSSSEN.

This course aims to present the major sociological theories and hypotheses which are current with some historical perspective which

¹Freshmen may elect this course provided they have two units of secondary school preparation in social science courses, including a minimum of one unit of World History and/or European History, or have satisfactory achievement on the Advanced Placement Tests, or with the approval of the Head of the Department.

bears directly upon recent trends in social theory. The sources of social concepts in tradition and changing experience; their formal application in framing and executing scientific research are studied. The taken-for-granted versus rational analysis, and values in relation to objectivity constitute the approach. Emphasis on current thought. This course is designed for both sociology majors and other students interested in contemporary social thought in this orientation.

307. Introduction to Social Statistics. Both semesters; lectures three hours; laboratory two hours; three credits. MR. ITO and MRS. HERZOG.

The applications and limitations of statistics are presented as means of providing tools whereby statistical methods may be recognized, interpreted, and applied in sociological research. Included are considerations of averages, measures of dispersion and variance, simple linear correlation and sampling theory. Emphasis on the logic of procedures, not on mathematical derivations.

311. Social Control. First semester; lectures three hours; three credits. Soc. 201, 202 or consent of instructor. MR. GRAY and MR. VANFOSSEN.

An analysis of universal techniques of social control used by both small groups and society as a whole. Considers the question of conformity to social norms and values in the interest of social stability and continuity as well as that of group and/or individual deviance.

313. Social Structure. First semester; lectures three hours; three credits. MR. RHYNE and MISS THEMO.

A study of the principal structural units of society. Central focus is on the concepts of hierarchy, stratification, class and caste, and the economic, prestige and power orders. Comparative perspectives, historical and cross-cultural, are developed.

319. Population Problems. First semester; lectures three hours; three credits. MR. ITO.

A consideration of the manner in which populations grow and decline and the effects of such change on society. Emphasis is on theories of population growth, distribution, births, deaths, internal and international migration, bio-social and sociological composition. Included are

discussions of the sources of data and techniques and methods of analysis, as well as contemporary population problems.

320. Social Problems. Lectures three hours; three credits; offered each semester. MR. GUENTHER.

An analysis of social deviance as behavior which violates institutionalized expectations. Among the areas considered are problems of: (a) life cycle socialization (adolescence, education, work, and old age); (b) deviant subcultures (delinquency, drug use); (c) social inequality (race and poverty); and (d) societal reaction to deviance (social rules and their interpretation, and discreditation by stigma). Issues in both theory and research will be treated in each substantive area.

321. Sociology of Social Welfare. Semester to be announced; lectures three hours; three credits. STAFF.

A study of the history and problems of welfare institutions and their functions in human society. Attention is given to contemporary welfare institutions as they relate to social structure and the other major institutions within it. The place of contemporary social work practice will be considered in this context.

322. Sociology of Crime. Second semester; lectures three hours; three credits. MR. BECK and MR. GUENTHER.

A consideration of sociological theory in relation to empirical observations of crime with the purpose of increasing an understanding of basic sociological concepts, especially as they are applied to crime causation, prison organization, and rehabilitation.

323. Sociology of Juvenile Delinquency and Adolescence. Second semester; lectures three hours; three credits. MR. BECK.

A consideration of juvenile delinquency and adolescent behavior with special emphasis on this phenomena in the United States. (Cross-Cultural materials will also be utilized.) Sociological concepts and theories will be applied to understanding adolescence and the societal structures concerned with the control, treatment, and prevention of juvenile delinquency.

326. Racial and Cultural Minorities. Second semester; lectures three hours; three credits. MR. LIGUORI.

Distinctions of race, religion, and national origin in contemporary society. The "racial" or "minority group" frame-of-reference in relation to economic and social class organization, political alignments, regional traditions, and psychological tensions. Trends of change. Included is a comprehensive study of minority problems and race issues in the modern world.

330. Sociology of Mental Illness. Second semester; lectures three hours; three credits. MR. KERNODLE. Prerequisite: Sociology 201, 202 or consent of instructor.

A study of sociological aspects of mental illness. The social and cultural sources of mental illness, types of mental disorders and their distribution within the social structure, and social factors in the treatment of mental illness will be scrutinized. Consideration of the mental hospital as a social system.

332. Marriage and the Family. Second semester; lectures three hours; three credits. MR. KERNODLE.

Analysis of the social relationships between people in courtship, marriage and family situations. Interrelations of family institutions and other parts of social structure. Intensive study of American family structure and relevant examples drawn from other cultures, with the aim of developing mature understanding of, and perspective on, the family.

334. Sociology of Religion. Second semester; lectures three hours; three credits. MISS THEMO.

Conceptions of the supernatural in non-literate societies; in examination of religious beliefs and practices; development of religious groups and institutions; relation of religion to social structure and social change.

335. Sociology of Education. First semester; lectures three hours; three credits. MR. GRAY.

A sociological analysis of education as a social institution. The relevance of education to the general social order and the function of education within a cultural context emphasized.

349. Human Geography. First semester; lectures three hours; three credits. MR. RHYNE.

A study of the adjustment of human societies to their physical environment. Emphasis on the spatial distribution of human population, cultural forms, and societal types. Comparison of different social reactions to similar geographic conditions.

350. The Sociology of Small Groups. Second semester; lectures three hours; three credits. Sociology 201, 202 or Psychology 201, or consent of instructor. MR. BECKHOUSE.

An introduction to the theory and research employed in the analysis of small groups. Emphasis is upon the culture, structure and functions of the group. Specific attention devoted to leadership, power, status, role differentiation and conformity within social groups.

352. The Sociology of Developing Countries. Second semester; lectures three hours; three credits. MISS THEMO.

An examination of the processes inherent in the social, political, and economic development within both newly emergent nations and established "under-developed" nations. Particular attention directed toward the institutional structures and attitude systems which support the modernization of such traditional social orders. The main body of substantive materials to demonstrate these structures and processes will be drawn from the countries of contemporary Latin America.

401, 402. Social Research. Continuous course; lectures three hours; three credits each semester. Prerequisites: Soc. 201, 202, 307. STAFF.

404. History of Social Thought. Second semester; lectures three hours; three credits. STAFF.

A survey of the major strands in social thought in the West and the influence of these on the founding and development of sociology as a separate discipline.

408. Intermediate Social Statistics. Second semester; lectures three hours; laboratory two hours; three credits. Prerequisite: Soc. 307 or equivalent. Sociology 401 recommended. MR. ITO.

A brief review of the logic underlying inductive statistics and tests of significance of single variables followed by tests of significance involving two or more variables. Parametric and non-parametric meas-

ures of relationship between two or more variables will also be considered.

411. Mass Society and Commitment. First semester; lectures three hours; three credits. MR. VANFOSSEN.

A study of communication, the mass media, and popular culture as these relate to the overall style of life and the structure of modern society. Attention is given to public opinion and changing social values; factors of power, authority, and dissent; personal and social freedom, commitment, and responsibility; and the broader issue of social cohesion and conflict in a heterogeneous society.

413. Urban Sociology. First semester; lectures three hours; three credits. STAFF.

The emergence and structure of the city in historical and cross cultural perspective, with special attention to the phenomena of urbanization and urbanism in the United States. Consideration of urban structure from both ecological and social perspectives; analysis of change in urban structure; selected problems associated with urban growth and life.

414. Industrial Society. Second semester; lectures three hours; three credits. Prerequisites: Soc. 201, 202, or consent of the instructor. MR. GRAY.

A sociological analysis of modern industrialized society. The transition from agrarian to industrialized society examined, including its specific effects on the American social character and individual personality.

416. Social Movements. Second semester; lectures three hours; three credits. MR. RHYNE.

A study of the social and cultural characteristics of contemporary social movements such as liberalism, democracy, socialism, communism, fascism. A critical evaluation is made of the philosophies, social foundations, and organizations of important movements. Emphasis on the interplay of these three factors.

431. Industrial Sociology. First semester; lectures three hours; three credits. Prerequisite: nine hours of sociology courses including Soc. 201, 202. MR. LIGUORI.

The industrial plant and business firm as social systems and the relation of these to other aspects of society. Emphasis is placed upon cross-cultural comparisons and attention is directed toward noncomplex, as well as modern complex productive organizations. Sociological theory in its application to industrial growth and problems.

433. The Structure of Power. First semester; lectures three hours; three credits. MR. RHYNE.

The organization of power and authority within the social order. Comparison drawn between different power structures in terms of differences in the social order. An investigation of the writings of some of the major theorists (some combination from Marx, Mosca, Lenin, Pareto, Michels, or Sorel and contemporary authors) on social and political power is undertaken.

438. Social Sources of Individual and Aggregate Behavior. Second semester; lectures three hours; three credits. MR. EDMONDS.

A study of the social sources of individual and group behavior. Social psychological studies of stratification, human learning, human thought and language, personality development, social persuasion, and collective behavior manifested in fads, fashions, and social movements. Particular emphasis is placed upon the development of authoritarian personality traits and Fascist social movements.

440. Special Problems in Sociology. For sociology majors only and upon consent of the Head of the Department.

480. Readings in Sociology. Either semester; three credits. STAFF.

Independent readings directed toward conceptual topics in sociology such as the history of social thought, theory, social structure, stratification, power. The student will read materials in his area of interest in consultation with an appropriate member of the staff.

481. Readings in Sociology. Either semester; three credits. STAFF.

Independent readings focusing on substantive areas within sociology such as crime, delinquency, racial and ethnic groups, family, mental illness, urban problems. The student will read materials in his area of interest in consultation with an appropriate member of the staff.

HONORS STUDY

495, 496. Honors. Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Sociology will be enrolled in this course during both semesters of their senior year. The course comprises (a) an exploration of the area of the logic of research along with selected readings in the student's special area of interest; (b) the preparation and presentation by May 1 of an Honors Essay or Project in his special area of interest; and (c) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.

MASTER OF ARTS DEGREE IN SOCIOLOGY

Requirements for the Degree of Master of Arts in Sociology

The candidate for the degree of Master of Arts in Sociology must meet the following requirements in addition to the general requirements stated on page 108 of this catalogue:

1. After consultation with the Department of Sociology the candidate will select a co-ordinated set of courses, undergraduate courses may be required in areas where the candidate's preparation is incomplete.
2. In addition to Sociology 560 (Thesis; 3 to 6 credits) the candidate must successfully complete 24 credits of which at least twelve credits must be at the 500 level and must include Sociology 501, 502 and one seminar (Sociology 511-517). Courses at the 400 level which are applied toward the degree must be completed with a grade of B or better.
3. With the approval of the department a maximum of 12 credits may be taken in a discipline other than Sociology.
4. A residence period of one academic year is required.
5. The candidate must demonstrate a reading knowledge of one foreign language, preferably French or German, in the subject matter of sociology.
6. Each candidate will be assigned a major professor and a com-

mittee who will be responsible for planning the candidate's program and the supervision of his thesis.

7. A written and oral examination, covering the candidate's thesis and his major areas of study is required.

GRADUATE COURSES

501, 502. Issues in Contemporary Sociology. Continuous course; lectures three hours; three credits each semester. STAFF.

This course is designed to acquaint the student with the central tendencies in sociology. Each topical unit will be considered in its historical development, in the chief theoretical and methodological issues arising in it, and in the main currents of contemporary research.

511-520. Seminars in Sociology. Each semester; lectures three hours; three credits each semester. STAFF.

Each course will devote itself to the intensive study of the major literature in separate areas of sociology. A previous familiarity with the general subject matter is presumed on the part of the candidate, and mastery of current research strategies in the subject area is stressed. A minimum of two seminars is offered each semester.

511. *American Social Thought.*

512. *Comparative Social Structures.*

513. *Demographic Analysis.*

514. *Family Institutions.*

515. *Racial and Ethnic Relations.*

516. *Social Problems and Social Welfare.*

517. *Sociology of Personnel Disorders and Mental Illness.*

518. *Complex Organization.*

520. *Human Values and Social Control.*

560. Thesis. Hours to be arranged. STAFF.

Theatre and Speech

PROFESSOR SCAMMON (*Head of the Department*). ASSOCIATE PROFESSORS HAAK, McCONKEY, AND SHERMAN. ASSISTANT PROFESSORS CATRON, LOTT, MILLER, AND SAWYER. INSTRUCTORS BROWN AND MICKEN.

The Department of Theatre and Speech offers a concentration in Theatre.

REQUIREMENTS FOR CONCENTRATION IN THEATRE

A student must take Theatre 204, 315, 316, 403, 404 and must complete fifteen additional hours in departmental offerings in Theatre. The student may count towards his concentration nine hours of work in related fields subject to the approval of his adviser.

THEATRE

204. Introduction to Theatre Arts. Both semesters; lectures three hours; three credits each semester. STAFF.

Survey of the development of the theatre from earliest times to the present. Emphasis on the major component parts found in the theatre—playwriting, directing, stagecraft, scene design, costumes, lighting and acting. Lectures, reading and discussion. Required of all concentrators in Theatre.

206. Makeup. Second semester; lectures two hours, laboratory two hours; three credits. Prerequisite: consent of the head of the department. MR. SHERMAN.

Study and practice of makeup in relation to light, shade and color, basic concepts in art; study and discussion of character analysis, showing the effects of heredity, temperament, environment, health and age on the actor physically. Students in this course assist in William and Mary Theatre productions.

***301, 302. Acting.** Continuous course; lectures three hours; three credits each semester. MR. SCAMMON.

Critical analysis and appreciation of acting developed by lectures, reading and discussion, and presentation of individual and group scenes.

305, 306. Stagecraft. Continuous course; workshop six hours; three credits each semester. MR. HAAK.

Study and practice in technical problem: working drawings, construction, scene painting, rigging, and handling of scenery, properties, lighting, backstage organization, and sound effects. Students in this course act as technicians for William and Mary Theatre productions.

309, 310. Design for the Theatre. Continuous course; studio six hours; three credits each semester. MR. MILLER.

Basic analysis of the visual elements of theatrical production. Lectures and demonstrations on significant historical periods. Emphasis is placed on watercolor sketching, scene painting, drafting. Students act as technicians for William and Mary Theatre productions.

312. History and Appreciation of the Motion Picture. Both semesters; lectures two hours; laboratory two hours; two credits. MR. HAAK.

Survey of the historical development of the film in Europe and America, and of organization, management, and mechanical process in production. In laboratory, historic and current films illustrating lecture material are shown.

313. Stage Lighting. First semester; lectures two hours; laboratory two hours; three credits. Prerequisite: consent of the instructor. MR. SHERMAN.

The principles of stage lighting and the equipment it employs, with emphasis on its value to the director as an important interpretative tool. Students will assist with William and Mary Theatre productions.

315. History of the Classical and Medieval Theatre. First semester; lecture three hours; three credits. Required of all concentrators in Theatre. MR. SCAMMON.

Study of the forms of the drama, development of the theatre and techniques of the stage of the Greek, Roman and Medieval Ages.

316. History of the Renaissance, Eighteenth and Nineteenth Century Theatre. Second semester; lectures three hours; three credits. Required of all concentrators in Theatre. MR. SCAMMON.

Study of the forms of the drama, development of the theatre and

techniques of the stage in the Renaissance, Eighteenth and Nineteenth centuries.

***317, 318. Playwriting.** Continuous course; lectures, discussions three hours; three credits each semester. MR. CATRON.

Study of dramatic structure and introduction to writing plays for the stage. Composition is accompanied by reading and analysis of dramatic literature. The course is designed to help the student find a dramaturgy to express his ideas. Worthy scripts may receive production.

319, 320. Theatre Administration. Both semesters; lectures three hours; three credits. Prerequisite: consent of the instructor. MR. SHERMAN.

The principles of management applied to the fields of theatre operations, production and performance, with emphasis given to promotion, box-office procedures and house management.

321, 322. Costume Design for the Theatre. Continuous course; lectures two hours; laboratory four hours; three credits. Prerequisite: consent of the instructor. MR. MILLER.

Lectures on historic period costume. Demonstrations and practice in sketching, pattern drafting, construction, form, color, and detail in the stage costumes. Students will apply techniques learned serving as costumers for William and Mary Theatre productions. Advanced students may serve as designers for Theatre productions.

401. History of the American Theatre. First semester; lectures three hours; three credits. MR. CATRON.

Theatre in America from its raw beginnings (1598) through the arrival of the Hallams in Williamsburg, up to the Civil War.

402. History of the American Theatre. Second semester; lectures three hours; three credits. MR. CATRON.

From the Civil War through the development of theatre in all parts of the country up to the present.

403, 404. Seminar in Contemporary Drama. Continuous course; three hours; three credits each semester. MR. CATRON.

Analysis of late nineteenth and twentieth century drama with special

emphasis on forms and styles. Lectures, discussion and research. Required of all concentrators in Theatre.

407, 408. Direction. Continuous course; lectures three hours; three credits each semester. MR. SCAMMON.

Study and practice in the principles of choosing the play, casting, rehearsals, and performance. Special emphasis on direction of one-act plays.

***411. Problems in Theatre.** Either semester; hours to be arranged; credit according to work done. STAFF.

Directed study on a special problem for the advanced student, arranged on an individual basis.

SPEECH

201. Public Speaking. Both semesters; lectures three hours; three credits. MR. McCONKEY and MR. MICKEN.

Understanding and application of the principles of public speaking. Analysis of speeches based on organization, content, and delivery.

202. Voice and Diction. Both semesters; lectures three hours; three credits. MRS. BROWN.

Study of processes of oral speech, including development of speech in young children, physics of sound, physiological, psychological and social bases of speech and phonetics. Training in voice production, articulation, pronunciation and quality.

203. Oral Interpretation. First semester; lectures three hours; laboratory one hour; three credits. MRS. BROWN.

Study of basic principles in techniques of oral interpretation. Use of body, voice, analyses of materials, reading and evaluations of prose and poetry.

204. Advanced Oral Interpretation. Second semester; lectures three hours; laboratory one hour; three credits. Prerequisite: Speech 203 or with the consent of the instructor. MRS. BROWN.

Continuation of Speech 203 with emphasis on presentation of several forms of literature.

301. Foundations of Broadcasting. First semester; lectures three hours; three credits. MR. LOTT.

An examination of the history and evolution of broadcasting as it exists in the United States, with consideration of business, regulatory and social aspects as they relate to the contemporary system.

302. Beginning Broadcast Production. Second semester; lectures two hours; laboratory two hours; three credits. Prerequisite: Speech 301 or permission of the instructor. MR. LOTT.

Fundamentals of radio program production. Emphasis on production and methods and problems at the level of the local station. Laboratory work involves the application of program and production theory.

308. Speech Composition and Briefing. Second semester; lectures three hours; three credits. MR. McCONKEY.

Study of the special techniques of speech construction as applied to advanced forms of public address, emphasizing structure, arrangement, and style. Special attention given to the application of the principles to persuasion and to argumentation. (Not offered 1969-1970.)

309. Argumentation and Debate. First semester; lectures three hours; three credits. MR. McCONKEY.

Training in the techniques and practices of argumentative speaking, study and analysis of debate propositions, preparation of the brief, research and selection of evidence, and practice in rebuttal and refutation. Lectures and class debating.

310. Principles of Group Discussion. Second semester; lectures three hours; three credits. MR. McCONKEY.

Study of logical and psychological foundations of discussion as a method of dealing with public questions, considering problems of adjustment, communication and collaborative action in small face-to-face groups. Emphasis on principles, types and methods of discussion. Lectures and practice participation. (Alternates with Speech 308.)

401. Studio Operations: Directing for Television. Continuous course; lectures two hours; laboratory two hours; three credits. Pre-

requisites: Speech 301 or 302 or consent of the instructor. MR. SAWYER.

A study of theory and methods of television production and direction. Detailed examination of cameras, lights, audio, graphics, design and responsibilities of studio and control room personnel.

402. Television Writing and Production. Continuous course; lectures two hours; laboratory two hours; three credits. Prerequisite: Speech 401. MR. SAWYER.

A study of the theory and methods of writing, producing and directing for television. Practice is provided in writing various kinds of programs with emphasis on limitations and responsibilities of the medium, and in advanced control room techniques with opportunities to supervise all aspects of television production.



SCHOOL OF BUSINESS ADMINISTRATION

PROFESSORS QUITMEYER (*Dean of the School of Business Administration*), COREY, KING (*Associate Dean of the School of Business Administration*), QUINN, REECE, SANCETTA (*Director of Graduate Studies*), AND TRAYWICK (*Director of Bureau of Business Research*). ASSOCIATE PROFESSOR HARTMAN. ASSISTANT PROFESSORS BAXLEY, COLE (*Director of Conferences*), DAFASHY, JONES, STANLEY. INSTRUCTOR MCNAIRY. LECTURERS GRAVES, MARSH AND RICKETTS.

The School of Business Administration offers both an undergraduate program and a graduate program in Business Administration. The undergraduate program leads to the A.B. degree with the option of a concentration in Accounting or a concentration in Management. The graduate program leads to the M.B.A. degree. The internal organization of the School of Business Administration consists of the Department of Accounting, the Department of Management, the Bureau of Business Research, and operational identities for the School's graduate program and conferences.

The Bureau of Business Research renders a service to the Virginia business community with its monthly publication, the Virginia Business Index Report, which reflects current business and economic activity in the State and with its publication, also monthly, the Williamsburg Business Index Report. Special research studies are published periodically by the Bureau.

Additional service to the business community is rendered by the School through its sponsorship of periodic business conferences and short courses.

The School of Business Administration cooperates with the Marshall-Wythe School of Law in offering a four-year program leading to the A.B. degree with a concentration in Accounting and a seven-year program with preparation for both Bar and C.P.A. examinations and Master of Law and Taxation degree.

CURRICULUM REQUIREMENTS

During the first two years virtually the same program of arts and sciences studies is required for students who plan to concentrate in

Accounting or Management as is required for all other students. The last two years emphasize the subject field of Business Administration and require the declaration of concentration in either Accounting or Management as part of admission to the School of Business Administration.

To meet the requirement for a concentration in Accounting or Management in the School of Business Administration, the student must take at least thirty hours of credit in courses labeled Business Administration. Every student admitted to the School of Business Administration is required to take the core program of courses outlined below as part of his concentration in either Accounting or Management. In addition, the student must take the additional courses required for the concentration in Accounting or Management as outlined in the respective departmental programs.

CORE PROGRAM OF COURSES

	<i>Credits</i>
Principles of Accounting (Bus. 201, 202)	6
Fundamentals of Marketing (Bus. 311)	3
Business Statistics (Bus. 331) or Principles and Methods of Statistics (Econ. 307)	3
Financial Management (Bus. 323)	3
Principles of Management (Bus. 327)	3
Business Law I	3
Business Policy (Bus. 416)	3
Total	24

DEPARTMENTS OF INSTRUCTION

ACCOUNTING

PROFESSOR QUINN (*Head of the Department*).

The concentration in Accounting is designed to prepare the student for careers in public or private accounting. To concentrate in Accounting, the student must take the following program of courses in addition to the core program of courses.

PROGRAM FOR CONCENTRATORS IN ACCOUNTING

	<i>Credits</i>
Intermediate Accounting (Bus. 301, 302)	6
Cost Accounting (Bus. 303)	3
Advanced Accounting (Bus. 401)	3
Seminar in Accounting (Bus. 407)	3
Federal Taxation	3
(Additional credits are needed for C.P.A. purposes)	
Total	18

DESCRIPTION OF COURSES

201, 202. Principles of Accounting. Continuous course; lectures three hours; three credits each semester. **STAFF.**

A study of the elementary principles and procedures of individual proprietorship, partnership, and corporation accounting.

301, 302. Intermediate Accounting. Continuous course; lectures three hours; three credits each semester. Prerequisites: Bus. 201, 202. **MR. QUINN.**

An analysis of balance sheets and profit and loss statements, together with the theory of valuation underlying the various accounts used in these statements.

303. Cost Accounting. First semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202. **MR. McNAIRY.**

The fundamentals of job order, process, and standard cost accounting and cost and profit analyses for decision-making purposes. Problems are used.

304. Auditing. First semester; lectures four hours; four credits. Prerequisites: Bus. 201, 202, 301, 302. **MR. HARTMAN.**

Auditing procedures through the application of auditing principles. Standards and ethics of the public accounting profession are emphasized as is the preparation of audit reports.

401. Advanced Accounting. First semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202, 301, 302 or permission of the instructor. **MR. REECE.**

A study of accounting for partnerships, consignments, installments, receivers' accounts and the use of actuarial science.

402. Specialized Accounting Problems. Second semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202, 301, 302 and 401 or permission of the instructor. MR. MCNAIRY.

A study of consolidated statements, foreign exchange, estate and fund accounting, together with an analysis of a number of problems given on recent C.P.A. examinations.

407. Seminar in Accounting. First semester; three credits. Prerequisites: Bus. 301, 302. MR. QUINN.

Selected topics based upon controversial issues in accounting theory and practice.

409. Accounting Systems and Data Processing. Second semester; lectures three hours; three credits. Prerequisite: Bus. 301. MR. HARTMAN.

The development, organization, design, analysis and improvement of manual and automated business information systems. Emphasis is given to preparation of systems charts, flow charts, and computer programs.

410. Survey of Accounting. Second semester; lectures three hours; three credits. MR. HARTMAN.

A survey of the general field of accounting. Open to students of Junior or higher standing not concentrating in Business Administration and not having taken Bus. 201 or 202.

Federal Taxation. (Marshall-Wythe School of Law.) Second semester; lectures three hours; three credits. MR. REECE.

Structure of the federal income, social security, estate and gift tax bases; reconciliation of tax and accounting concepts; tax credits and tax computations.

Preparation of Tax Forms. (Marshall-Wythe School of Law.) Second semester; lectures two hours; two credits. MR. REECE.

The pattern and content of all major types of federal tax forms, including all required of businesses in the payroll and excise tax field;

the application of the forms to various personal and commercial situations; and problems requiring returns preparation as a supplement to the course in federal income tax law.

MANAGEMENT

ASSISTANT PROFESSOR DAFASHY (*Head of the Department*).

The concentration in Management is designed to prepare the student for managerial careers by providing the student with the tools of business analysis, an understanding of the systems of management, and a knowledge of the major functional areas of business. To concentrate in Management the student must take the following program of courses in addition to the core program of courses.

PROGRAM FOR CONCENTRATORS IN MANAGEMENT

	<i>Credits</i>
Industrial Relations (Bus. 315)	3
Production Management (Bus. 330)	3
Quantitative Analysis for Business Decisions (Bus. 418)	3
Seminar in Contributions of Arts and Sciences to Business (Bus. 428)....	3
Seminar in Business Research (Bus. 430)	3
One other Bus. or Econ. 3-credit course	3
Total	18

DESCRIPTION OF COURSES

309. World Resources. Both semesters; lectures three hours; three credits. Prerequisite: Junior or Senior standing or permission of the instructor. STAFF.

The forces of natural environment as they relate to world patterns of production and exchange with consideration of the roles played by selected commodities and other resources in world economic organization.

311. Fundamentals of Marketing. Both semesters; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. MR. BAXLEY and MR. STANLEY.

A study of the role of marketing in business and the economy. Emphasis is on the examination of functions, institutions, and policies.

312. Marketing Problems. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. MR. BAXLEY.

An examination of marketing problems encountered at all levels of distribution. Cases are used to emphasize analysis and decision-making.

314. Sales Management. Second semester; lectures three hours; three credits. Prerequisite: Bus. 311. STAFF.

An examination of the management of the sales effort in the business organization. Emphasis is given to sales organization, policies, and control. The case method is used to develop analysis of sales management functions.

315. Industrial Relations. First semester; lectures three hours; three credits. MR. COLE.

A course to provide understanding of the principles, policies, and practices used to develop a sound industrial relations program in the business organization. Among the topics included are job analysis, the employment process, employee development and evaluation, wage and salary administration, labor relations, and union negotiation.

316. Behavioral Science and the Business Organization. Both semesters; lectures three hours; three credits. STAFF.

A study of human behavior, development, and motivation in the business organization. Attention is given to behavioral science research in administration.

320. Advertising. Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. MR. KING.

A study of the relationship of demand stimulation to business management. Analysis of cases will emphasize the management of advertising campaigns, expenditures, and the integration of advertising efforts as part of the total marketing concept.

323. Financial Management. Both semesters; lectures three hours; three credits. Prerequisites. Bus. 201, 202. MR. SANCETTA.

An introductory course covering current and long-term financing

of the firm, capital budgeting, dividend policies, and business expansion.

327. Principles of Management. First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. MR. BAXLEY and MR. KING.

An introduction to the principles of management and their application to business. Emphasis is given to the development of a philosophy of management.

329. Management of Small Business. First semester; lectures three hours; three credits. STAFF.

A study of the special problems, analysis, and decision-making involved in the management of small business.

330. Production Management. Second semester; lectures three hours; three credits. MR. COLE.

A course designed to familiarize the student with the production phase of business activity. Emphasis is on developing ability to use analytical methods in the design and operation of production systems.

331. Business Statistics. Both semesters; lectures two hours, laboratory two hours; three credits. MR. DAFASHY and MR. TRAYWICK.

A study of the basic tools of statistical analysis used by the business administrator.

334. Business Simulation Analysis. Both semesters; lectures three hours; three credits. STAFF.

Business models and problem solving with IBM 360/50 computer assistance. Grounding in computer language and programming is presented first.

416. Business Policy. Both semesters; lectures three hours; three credits. Prerequisite: Senior standing in the School of Business Administration or permission of the instructor. MR. KING and MR. STANLEY.

A course which deals with the establishment of company-wide objectives and the subordinate plans and controls to accomplish them. This course integrates and builds upon the business administration core

to develop decision-making ability at the policy-making level of administration.

418. Quantitative Analysis for Business Decisions. Both semesters; lectures three hours; three credits. Prerequisite: six hours of mathematics or permission of the instructor. MR. DAFASHY.

A course which integrates quantitative decision methods and the team approach to research problems of interest to management. Attention is given to probability theory, linear programming and other quantitative approaches used in the analysis of business problems.

428. Seminar in Contributions of Arts and Sciences to Business. Both semesters; hours to be arranged; three credits. Prerequisite: Senior standing in the School of Business Administration or permission of the instructor. MR. COREY.

A study of the conceptual foundations of business and their origin and development in the literature of the arts and sciences.

430. Seminar in Business Research. Both semesters; hours to be arranged; three credits. Prerequisite: Senior standing in the School of Business Administration or permission of the instructor. MR. COREY, MR. KING, and MR. QUITMEYER.

Independent research culminating in the preparation of a thesis on a topic of business interest.

Business Law I. (Marshall-Wythe School of Law.) First semester; lectures three hours; three credits. Prerequisite: Junior standing. MR. JONES.

Contracts, sales, negotiable instruments and agency with emphasis on the Uniform Commercial Code.

Business Law II. (Marshall-Wythe School of Law.) Second semester; lectures three hours; three credits. Prerequisite: Business Law I. MR. JONES.

Bailments and carriers, partnerships, corporations, unfair competition, bankruptcy, secured transactions, property, trusts, mortgages, and insurance.

RECOMMENDED PROGRAM FOR THE FIRST TWO YEARS

FRESHMAN YEAR

	<i>Credits</i>
Grammar, Composition, and Literature (Eng. 101, 102)	6
Foreign Language	6-8
Mathematics, 6 hours ¹	6
Biology, Chemistry, Geology, or Physics	8
Required Physical Education (Phys. Ed. 101, 102)	2
Total	28-30

SOPHOMORE YEAR

English Literature (Eng. 201, 202), Introduction to Fine Arts (F.A. 201, 202) or Literature (Hum. 201, 202)	6
Foreign Language	6
Principles of Economics (Econ. 201, 202) ¹	6
History of Europe (Hist. 101, 102) or Introduction to Government and Politics (Govt. 201, 202) or General Sociology (Soc. 201, 202) ²	6
Principles of Accounting (Bus. 201, 202)	6
Required Physical Education (Phys. Ed. 201, 202)	2
Total	32

RECOMMENDED PROGRAM FOR THE SECOND TWO YEARS

A. ACCOUNTING CONCENTRATION

JUNIOR YEAR

	<i>Credits</i>
Intermediate Accounting (Bus. 301, 302)	6
Cost Accounting (Bus. 303)	3
Fundamentals of Marketing (Bus. 311)	3
Business Statistics (Bus. 331) or Principles and Methods of Statistics (Econ. 307)	3
Principles of Management (Bus. 327)	3
Financial Management (Bus. 323)	3
Nine credits in electives ³	9
Total	30

¹ These credits are a prerequisite to later courses and also meet distribution requirements.

² Soc. 201, 202 is recommended.

³ Principles of Psychology (Psych. 201) is recommended as one of the elective courses.

SENIOR YEAR

	<i>Credits</i>
Advanced Accounting (Bus. 401)	3
Seminar in Accounting (Bus. 407)	3
Federal Taxation	3
Business Policy (Bus. 416)	3
Business Law I	3
15-17 credits in electives ¹	15-17
Total	30-32

B. MANAGEMENT CONCENTRATION

JUNIOR YEAR

	<i>Credits</i>
Fundamentals of Marketing (Bus. 311)	3
Business Statistics (Bus. 331) or Principles and Methods of Statistics (Econ. 307)	3
Industrial Relations (Bus. 315)	3
Financial Management (Bus. 323)	3
Business Law I	3
Principles of Management (Bus. 327)	3
Production Management (Bus. 330)	3
9 credits in electives ²	9
Total	30

SENIOR YEAR

Business Policy (Bus. 416)	3
Quantitative Analysis for Business Decisions (Bus. 418)	3
Seminar in Contributions of Arts and Sciences to Business (Bus. 428)	3
Seminar in Business Research (Bus. 430)	3
18-20 credits in electives ¹	18-20
Total	30-32

MASTER OF BUSINESS ADMINISTRATION DEGREE

The Master of Business Administration degree is offered in the afternoon and evening hours throughout the year to meet the needs of two groups:

¹ The student should be sure that at least 30, but not over 42, credits with Business numbers are taken in order to meet the basic 124 credit graduation requirement.

² Principles of Psychology (Psych. 201) is recommended as one of the elective courses.

- (1) Part-time students whose employment precludes full-time attendance.
- (2) Full-time students who normally would be recent graduates of the College of William and Mary or other approved institutions granting a bachelor's degree.

Part-time students may expect to complete requirements for the degree in a minimum of two and one-half calendar years. Full-time students may require a minimum of approximately one calendar year.

Admission

Application forms for admission to graduate study should be requested from the office of the Director, Graduate Studies, School of Business Administration. Applications are accepted from qualified men and women for entrance in September, February and June. Closing dates for completion of applications are August 1, December 30, and May 15, respectively. Prospective students are advised that delayed application may result in postponement of enrollment to a subsequent term. The Admission Test for Graduate Study in Business is required of all applicants. However, when time does not permit, the applicant may take the Admission Test for Graduate Study in Business after admission to graduate study but in any case not later than the completion of the first semester of graduate work.

Please address correspondence concerning the M.B.A. degree to Director, Graduate Studies, School of Business Administration, College of William and Mary, Williamsburg, Virginia 23185.

Undergraduate prerequisites or corequisites

The following undergraduate semester credits are required as prerequisites or, in some cases, corequisites to the graduate program: Principles of Accounting (6); Principles of Economics (6); and Principles of Statistics (3). These credits may have been earned at other approved institutions. An individual whose undergraduate background does not include these requirements may complete them in the College, Evening College, Extension Division, Christopher Newport College, or in another approved institution.

Transfer of Graduate Credit

Six semester hours of graduate credit or the equivalent taken elsewhere may be transferred for graduate credit under this program, provided that equivalent graduate courses are listed in this program's curriculum and provided such hours of credit have been earned prior to admission to this School's M.B.A. program.

Other Graduate Credit

Six semester hours of graduate credit may be taken from other William and Mary graduate courses, with suitability for a student's program to be determined and approved by the Director, Graduate Studies, School of Business Administration.

Requirements for the Degree

1. The Director, Graduate Studies, School of Business Administration, will approve each student's program.

2. Thirty-six semester hours of approved graduate credit must be completed for the degree with a minimum quality point average of 2.0. Normally, four graduate course grades below B or one graduate course grade of F will call for dismissal. A student may withdraw from a course without prejudice before it is half over but must complete it after that point or receive an F for dropping it, unless the drop is involuntary.

3. Each student must complete the following core courses in the program at William and Mary unless in the opinion of the Director, Graduate Studies, School of Business Administration, the student should not take any or all of them because of previous substantial academic work in such courses at undergraduate or graduate levels:

Bus. 510—Managerial Accounting (3 credits)

Bus. 520—Managerial Economics (3 credits)

Bus. 530—Managerial Finance (3 credits)

Bus. 540—Managerial Marketing (3 credits)

Bus. 550—Administrative Practices (3 credits)

Bus. 570—Policy Formulation and Action (3 credits)

Exemption from taking any of these courses does not change the number of graduate credits needed for completion of the degree.

4. Each student must pass a comprehensive examination which will usually be taken in his last semester or summer session of attendance.

5. Although a thesis will not be required, the course Bus. 580-581 entitled Research Project in Graduate Business Administration will count as six semester hours of graduate credit for those who successfully complete it.

6. All requirements for the degrees must be completed within a maximum period of seven calendar years after commencing graduate study for the M.B.A. degree at William and Mary.

DESCRIPTION OF COURSES

510. Managerial Accounting. Lectures three hours; three credits. MR. DAFASHY, MR. HARTMAN and MR. REECE.

Analytical and interpretative aspects of accounting with principal attention to the role of accounting in enterprise decision-making.

512. Cost Administration. Lectures three hours; three credits. MR. HARTMAN.

Use of cost information for better decisions on problems involving cost consideration, on the control of operations, and on setting goals and budgets for future operations.

514. Operations Research. Lectures three hours; three credits. MR. DAFASHY.

Development and use of modern quantitative analytical techniques in decision-making in business.

516. Management Science. Lectures three hours, three credits. STAFF.

Decision-making and control using such concepts as cost-effectiveness analysis, cost-benefit analysis, and systems analysis with IBM 360/50 computer assistance.

520. Managerial Economics. Lectures three hours; three credits. MR. SANCETTA and MR. TRAYWICK.

Economic analysis applied to executive decisions; policies on product competition, profits, competition, profits, cost, demand, price determination and capital formation.

522. Economic Dynamics. Lectures three hours; three credits. MR. SANCETTA.

Process of industrial change and adjustment to change including anticipations and uncertainties; interplay between aggressive and defensive forms of competition.

524. Trade Regulation. Lectures three hours; three credits. MR. MARSH and MR. SANCETTA.

Common law and statutory regulation of trade with emphasis on the federal anti-trust laws.

530. Managerial Finance. Lectures three hours; three credits. MR. MCNAIRY and MR. SANCETTA.

Applications of the theory of finance to the formulation and implementation of financial policies.

533. Security Analysis. Lectures three hours; three credits. Prerequisite: Business 530 or permission of the instructor. STAFF.

Principles and techniques applicable to the analysis of securities of private business corporations; workable criteria for the selection or rejection of issues; critical examination of investment theories and their limitations in practice.

537. Management of International Operations. Lectures three hours; three credits. STAFF.

Organization and operation of business abroad; problems of communication and control with relation to aspects of doing business in foreign countries.

540. Managerial Marketing. Lectures three hours; three credits. MR. BAXLEY and MR. KING.

Examination of marketing from a managerial viewpoint; emphasis on evaluating marketing alternatives and in choosing from these alternatives.

541. Advertising Management. Lectures three hours; three credits. MR. KING.

Analysis of the managerial aspects of advertising including the examination of advertising alternatives.

542. Procurement Management. Lectures three hours; three credits. MR. JONES.

Objectives and methods of managing procurement in an organization; value analysis; formal bidding and negotiation; federal government procedures.

544. Risk Management. Lectures three hours; three credits. MR. JONES.

Objectives and methods of managing various types of risk that exist in the operation of an organization; risk transfer and reduction self-insurance; insurance contracts.

546. Transportation Management. Lectures three hours; three credits. MR. STANLEY.

Applications of management principles and techniques to problems in transportation.

548. Industrial Management. Lectures three hours; three credits. STAFF.

Decision-making applied to objectives and methods of manufacturing.

550. Administrative Practices. Lectures three hours; three credits. MR. COLE and MR. QUITMEYER.

Organizational theory and practice with emphasis on human factors.

552. Legal Environment of Business. Lectures three hours; three credits. MR. JONES.

Examination of lawmaking processes and some fields of substantive law; contribution to lawmaking made by private groups.

554. Personnel Management. Lectures three hours; three credits. MR. KING.

Examination of the management of human resources; procurement of workers; development and evaluation including consideration of the role of the union.

570. Policy Formulation and Action. Lectures three hours; three credits. MR. HARTMAN and MR. STANLEY.

Policy decision-making at the top level, integrating the various functional areas of enterprise. (The course is ordinarily not taken until the other core courses have been completed.)

580-581. Research Project in Graduate Business Administration. Six credits. MR. MARSH, MR. QUITMEYER and STAFF.

Work in research methodology and writing leading to the submission of an acceptable project. (Directed by the faculty primarily through personal conferences.)



SCHOOL OF EDUCATION

PROFESSORS BROOKS (*Dean of the School of Education*), CLEM, GALFO, HERRMANN, MCCARTHA, NELSON, UNGER. ASSOCIATE PROFESSORS BULLOCK, CHESSER, JONES (*Associate Dean of the School of Education*), MILLS, O'SHELL¹, SMITH. ASSISTANT PROFESSORS COWLES, FLANAGAN, GEOFFROY², LAVICH, LAZANAS, RIES, SYKES. LECTURERS DELAUNE, MATIER, MORRELL, F. NELSON.

REQUIREMENTS FOR CONCENTRATION

Students who wish to concentrate in education must meet the admissions requirements of the School of Education. Application forms and information regarding admissions procedures may be obtained from the Office of the Dean of the School of Education.

Those students who are admitted to the School of Education may elect to concentrate in either elementary education or secondary education. The requirements for each of these concentrations are stated below. Successful completion of either of these programs will insure the student of receiving the Collegiate Professional Certificate from the State Board of Education of the Commonwealth of Virginia.

Elementary Education

The suggested program listed below satisfies the distribution requirements of the College and leads to certification in elementary school teaching by the State of Virginia.

FRESHMAN-SOPHOMORE

	<i>Semester Credits</i>
English 101, 102, 201, 202	12
Foreign Language	6-14
Mathematics 105, 106	6
Social Science	12

¹Acting Associate Professor 1968-69.

²On leave of absence 1968-69.

Selected from:

Economics 201, 202

Government 201, 202

History 101, 102

Sociology 201, 202

(Note: Since Economics is required for certification, it is suggested that the student choose Economics as partial fulfillment of the social science requirement.)

Physical Education 101, 102, 201, 202	4
Science	8
Geology 101, 102	Physics 103, 104

(Note: Since elementary school science draws heavily from Geology and Physics, it is suggested that the student choose either or both of the courses suggested above.)

Total	48-56
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Professional Education

Education 301—Educational Psychology	3
Education 302—Human Growth and Development	3
Education E304—Teaching Reading in the Elementary School	3
Education E305—Materials and Methods in Elementary School	3
Education E321—Children's Literature	3
Education 325—Mathematics for Teachers	3
Education E401A—Supervised Teaching—Primary Grades	} 6
or	
Education E401B—Supervised Teaching—Upper Elementary Grades	
Education 404—Cultural Foundations of Education	3
Total	27

The following additional courses are required to complete certification requirements in the State of Virginia:

Fine Arts 331—Principles of Functional Design	3
Music 320—Music for Elementary School Teachers	} 3
or	
Music 321—Music in the Elementary School	
Physical Education 321—Foundations of Health Education	3
Total	9
Total	84-92

(Note: Electives should be selected in cooperation with an advisor from the School of Education.)

Secondary Education

In addition to the courses listed below, the student concentrating in secondary education must meet certain requirements in general education and in the area in which the student is seeking a teaching endorsement. The student should become familiar with these requirements which may be obtained from the Office of the Dean of the School of Education.

	<i>Semester Credits</i>
Education 301—Educational Psychology	3
Education 302—Human Growth and Development	3
Education S303—Instructional Materials and Methods	3
Education S401—Supervised Teaching	6
Education 404—Cultural Foundations of Education	3
Education S414—Educational Measurements and Evaluation.....	3
Total	21
Major Teaching Field	24-42
(This will vary according to subject field endorsements sought.)	

GRADUATE STUDY

Graduate study is available for those who have completed with merit an undergraduate degree program at an accredited institution.

The School of Education awards the degrees of Master of Arts and Master of Education in a variety of fields. In addition, the Certificate of Advanced Study is offered in the areas of Educational Administration and in Counseling. The Doctor of Education degree is offered in Educational Administration. For complete course descriptions and detailed information relating to the graduate program, write to the Dean of the School of Education.

Application blanks for admission to graduate study in the School of Education should be requested from the office of the Dean of the School of Education.

DESCRIPTION OF COURSES

301. Educational Psychology. Both semesters; lectures three hours; three credits. MR. LAVACH and MR. RIES.

A course in which current theories of learning emphasizing the basic factors of motivation, learning, retention and transfer are analyzed. Special emphasis will be placed on educational implications of empirical and theoretical findings.

302. Human Growth and Development. Both semesters; lectures three hours; three credits. MR. LAVACH and MR. RIES.

A course in which selected theories and research findings dealing with progressive human growth and development from conception to senescence are examined. Major emphasis will be placed on genetics, sensory-motor development, cognition, personality, perception and emotion. Educational implications will be explored.

S303. Instructional Materials and Methods. Both semesters; lectures three hours; three credits. STAFF.

An introductory course in the organization of instruction. This course must be taken prior to supervised teaching. Prerequisites: Education 301 or 302 and fifteen semester credits in the subject of teaching choice.

E304. Teaching Reading in the Elementary School. Both semesters; lectures three hours; three credits. MR. COWLES and Miss LAZANAS.

A basic course in the fundamentals of instruction in reading. This course is concerned with the application of principles of learning and child development to the teaching of reading and the related language arts. Prerequisites: Education 301, 302.

E305. Materials and Methods in the Elementary School. Both semesters; lectures three hours; three credits. MR. SYKES.

A continuation of E304 with emphasis upon the areas of social studies, mathematics, science and physical education.

S305. The Teaching of High School Latin. Both semesters; lectures three hours; three credits. Same as Latin 405.

E321. Children's Literature. Both semesters; lectures three hours; three credits. MRS. DELAUNE.

A course dealing with reading and the examination of books and other materials suitable for the child of elementary school age. In-

cludes a study of children's reading interests; criteria and aids of selection of materials; practice in evaluating materials; and a brief survey of the history and trends in publishing books for children.

325, 326. Mathematics for Teachers. Continuous course; lectures three hours; three credits each semester. MR. FLANAGAN.

An introduction to the concepts, language, and scope of mathematics as it is taught in the public schools. These courses are designed for prospective elementary and junior high school teachers. They do not meet the college distribution requirement.

400. Problems in Education. Both semesters; hours and credits to be arranged. STAFF.

A course designed for students capable of independent study under the direction and in consultation with staff specialists. Students undertake study and research of educational problems of individual concern resulting from previous study or experience.

E401A. Supervised Teaching, Primary Grades. Both semesters; six credits. Prerequisites: Education 301, 302, E304, E305. STAFF.

E401B. Supervised Teaching, Upper Elementary Grades. Both semesters; six credits. Prerequisites: Education 301, 302, E304, E305. STAFF.

S401. Supervised Teaching, Secondary Level. Both semesters; six credits. Prerequisites: Education 301, 302, 303. STAFF.

404. Cultural Foundations of Education. Both semesters; lectures three hours; three credits. MR. JONES and MR. UNGER.

A course designed primarily to aid the prospective teacher in attaining depth of perspective in the theory of education. The course deals with the development of educational traditions; philosophical constructs underlying American practices of education, and the analysis of contemporary problems in light of this historical and philosophical background. Problems are considered, such as equality of educational opportunity, the relationships among church, state and school, and the effect upon education of the changing patterns of American life.

411. Guidance and Personnel Work in Schools. Both semesters; lectures three hours; three credits. MR. CLEM and MR. O'SHELL.

A study of the fundamental principles of pupil guidance and current practices in school systems. Emphasis is placed on the teacher's responsibilities in a program of guidance. This course is intended for students without previous courses in Guidance and is a prerequisite for all other courses in Guidance.

S414. Educational Measurements and Evaluation. Both semesters; lectures three hours; three credits. MR. BROOKS and MR. RIES.

A course dealing with the identification and definition of instructional objectives in behaviorial terms, constructing and selecting measuring and evaluative instruments to appraise these objectives and interpreting the results obtained in a meaningful way. Emphasis is placed on the construction of teacher-made tests and the interpretation of standardized tests. Prerequisites: Education 301, 302, 303.

421. Psychology of Exceptional Children. First semester; lectures three hours; three credits. MISS SMITH.

A course in which the psychological aspects of exceptionality are analyzed. A survey course which deals with the different kinds of disorders, with particular attention given to the implications for learning and life adjustment. Both theoretical and practical points of view are offered. The course is designed for teachers, supervisors, administrators, counselors, psychologists and others. Open to undergraduates.

425. Survey of Exceptional Children. Both semesters; lectures three hours; three credits. MISS SMITH.

A study of all classifications of exceptionality including the gifted, the physically, mentally, emotionally, neurologically and socially handicapped. This course is designed to acquaint teachers, administrators, counselors and psychologists with the entire field of Special Education. Open to undergraduates.

426. Developmental Reading. First semester; lectures three hours; three credits. MISS LAZANAS.

A course designed to help teachers understand the essentials of developmental reading instruction from the readiness period through the secondary level. Attention is given to the organization of programs of reading instruction at various levels. Also included is a study of word attack skills, comprehension and reading in the content areas. The

application of research and theory in classroom practice is considered. Laboratory experiences in the teaching of reading are included when possible.

427D. Emotional Disorders of Children. Both semesters; lectures three hours; three credits. MRS. MILLS.

A study of the emotional bases for disordered behavior; the physiological background, the dynamics of interaction with others, and the motives, drives and conflicts which pattern behavior. Consideration is given to procedures for coping with behavioral disorders in the public schools. Open to undergraduates.

436. The Improvement of Reading in the Junior and Senior High School. Either semester; lectures three hours; three credits. MISS LAZANAS.

A course intended for teachers in junior and senior high schools who desire to improve their competence in the teaching of reading. Included are an intensive study of the nature of reading problems among adolescents and young adults, the most effective techniques of improving reading abilities among this group, and appropriate materials to be used in this teaching.

TEACHER SCHOLARSHIPS, LOANS AND STUDENT EMPLOYMENT

Virginia Teacher's Scholarship

The General Assembly of Virginia has made an appropriation for Teacher Training Scholarships available to freshmen, sophomores, juniors and seniors who are residents of the State and who plan to teach in the Virginia Public schools. These scholarships are for \$350 per academic year and for proportionate amounts during the Summer Session. Inquiries should be addressed to the Dean of the School of Education.

Kappa Delta Pi Scholarship

The Alpha Xi Chapter of Kappa Delta Pi, national honor fraternity for teachers and students in Education, annually offers a \$100 scholarship to the student displaying combined scholarship and outstanding professional qualities. Inquiries should be directed to the Dean of the School of Education.

TEACHER PLACEMENT

The School maintains a Bureau of Recommendations to assist its graduates who plan to teach or who are seeking changes in employment. No registration fee is charged, and all students enrolled in the School are urged to avail themselves of this service. If the students file complete records and cooperate with the Bureau, the faculty can be of assistance to those who go into teaching, not only at graduation, but also at later times.

STUDENT HONORS AND ACTIVITIES

Kappa Delta Pi

This honor society in Education was first organized in 1911, and Alpha Xi Chapter of the College of William and Mary was chartered in 1922. The purpose of Kappa Delta Pi is to encourage high professional, intellectual and personal standards, and to recognize outstanding contributions to education. To this end the organization invites to membership persons who exhibit commendable personal qualities, worthy educational ideals and sound scholarship. The organization endeavors to maintain a high degree of professional fellowship among its members and to quicken professional growth by honoring achievement in educational work. Both men and women are eligible for membership.

Student Education Association

The student organization which complements the National Education Association and the Virginia Education Association has been active in furthering professional competence and providing members with introductions to the national and state professional organizations. All prospective teachers are eligible for membership.

MARSHALL-WYTHE SCHOOL OF LAW¹

PROFESSORS CURTIS (*Dean of the School of Law*), WHYTE (*Associate Dean of the School of Law*), JOLLS, PHELPS, SWINDLER, AND TORCIA. ASSOCIATE PROFESSORS DONALDSON, FISCHER AND STASON. ASSISTANT PROFESSOR JOHNSON. LECTURERS ANDERSON, ATKINSON, AND ZEPKIN.

HISTORY

The School of Law was originally established December 4, 1779, when, by resolution, the Board of Visitors created a professorship of Law and Police. Antedated by the Vinerian professorship at Oxford, established twenty-one years earlier and held by Sir William Blackstone, and perhaps by the chair at Trinity College, Dublin, the chair of law at the College of William and Mary thus became one of the earliest in the English-speaking world and the oldest in the United States.

The part played by Thomas Jefferson in placing laws among the subjects taught at his *Alma Mater* is told briefly in his *Autobiography*.²

On the 1st of June, 1779, I was appointed (elected) Governor of the Commonwealth and retired from the legislature. Being elected also one of the Visitors of Wm. & Mary College, a self-electing body, I effected during my residence in Williamsburg that year, a change in the organization of that institution by abolishing the Grammar School, and the two professorships of Divinity & Oriental languages, and substituting a professorship of Law & Police, one of Anatomy, Medicine and Chemistry, and one of Modern Languages; and the charter confining us to six professorships, we added the law of Nature & Nations, & the Fine Arts to the Duties of the Moral professor, and Natural history to those of the professor of Mathematics and Natural philosophy.

The Board of Visitors elected as the first law professor George Wythe in whose office Jefferson had studied. A signer of the Declaration of Independence and styled by Jefferson the American Aristides,

¹See also Marshall-Wythe School of Law Bulletin, 1968-69.

²Ford's edition, I, 69-70.

Wythe was a judge of the Virginia High Court of Chancery and one of the earliest judges to enunciate the doctrine of judicial review.

The elevation of Wythe to the sole chancellorship of Virginia, ten years after the chair of law was established, necessitated his removal to Richmond and his resignation from the faculty. He was succeeded by St. George Tucker, whose edition of Blackstone is a legal classic and one of the first law books published in America. Among the last to hold the professorship at Williamsburg prior to 1861 was Lucian Minor, a member of another Virginia family intimately associated with the law.

Soon after its foundation, and probably from the very beginning, the law school of the College of William and Mary demanded an academic baccalaureate degree as a requirement for a law degree, the College statutes compiled in 1792 providing:

For the degree of Bachelor of Law, the student must have the requisites for Bachelor of Arts; he must moreover be well acquainted with Civil History, both Ancient and Modern and particularly with Municipal law and police.

In May, 1861, with the closing of the College, because of the exigencies of war, the law school ceased to function. When the College resumed operation, financial stringency resulted in the granting of leaves of absences to some of the faculty. Among these was the professor of Law. This leave of absence continued indefinitely. During the precarious years in the life of the institution following the Civil War the Law School remained largely dormant. Its revival, begun in 1920, was completed with the session of 1922-23.

The School of Law is registered by the State Department of Education of the University of the State of New York, is approved by the American Bar Association, and is a member of the Association of American Law Schools.

LIBRARY

The Library of the Marshall-Wythe School of Law contains 48,000 volumes, and includes the National Reporter System, the American Digest System, all the Reports of the Supreme Court of Appeals of

Virginia, all the United States Supreme Courts Reports, and up-to-date statutes for all of the states. Also available are legal periodicals, session laws, state and municipal codes, digests, general and legal dictionaries and encyclopedias, texts, citators, and reports of many courts of last resort. The Law Library is administered by the Law Librarian, and during the regular session is open a total of 100 hours per week.

WILLIAM AND MARY LAW REVIEW

The *William and Mary Law Review* is published quarterly by the students of the School of Law with the cooperation of the faculty. Its primary objective is to provide an opportunity for student legal composition. The editor each year is a student selected by the faculty, and he is aided by an editorial board. The editor in 1968-69 is Charles E. Friend.

PRE-LEGAL STUDIES

While no specific academic subjects, apart from the general requirements for the baccalaureate degree, are required for admission to the School of Law, students who expect to proceed to the law degree are urged to complete the general degree requirements before commencing the work in Law. It is recommended that such students consult with the pre-legal adviser of the School as early in their college careers as possible regarding the scope and distribution of their academic work.

ADVANCED CREDIT

With the discretion of the faculty of the School, credit may be allowed for subjects satisfactorily completed at approved law schools, not to exceed the equivalent of 60 semester credits.

EXCLUSION BECAUSE OF POOR SCHOLARSHIP

Any student who has been admitted to candidacy for the degree of Juris Doctor and who does not maintain a quality point average of at least 1.0, or who fails more than five hours in any semester will be permitted to continue his course only with the consent of the faculty of the School.

DEGREE REQUIREMENTS

THE BACHELOR OF ARTS DEGREE—SIX YEARS
COMBINED COURSE

Students who have completed three years of pre-legal work will be awarded the Bachelor of Arts degree on the satisfactory completion of the first year's work in law. The first two years of such pre-legal work may be done in any accredited college or university provided that the requirements of the College of William and Mary as to the nature and quality of the work are met. By proceeding in this way it is possible for students to receive both their arts and law degrees within a period of six academic years. For further detail regarding this program, see sub-heading Combined Six-Year Program at page 96.

THE JURIS DOCTOR DEGREE

Students holding an academic baccalaureate degree from an institution of approved standing, who have been in residence in the Law School for at least ninety weeks (or, in case advanced credit has been allowed have been in residence in this school at least during their last year), who have completed satisfactorily at least ninety semester credits in law with a quality point average of 1.0 or better in *all* the law work undertaken, and who have demonstrated their ethical fitness, will receive the degree of Juris Doctor.

MISCELLANEOUS INFORMATION

Methods of Instruction. While each instructor has full liberty to adopt his method of teaching, the plan most generally used consists of the discussion of cases and legal problems. Students are encouraged from the beginning to make the fullest use of the law library.

Scholarships and Prizes. Matthew Gault Emery Law Scholarship, the Paul M. Shapiro Memorial Scholarship, the Lawyers Title Insurance Corporation Award, the Seidman & Seidman Tax Award, the William A. Hamilton Prize, and the William A. R. Goodwin Memorial Fund Scholarships. See Scholarships.

ADMISSION REQUIREMENTS

The following persons may be admitted to courses in Law:

1. Students holding an academic baccalaureate degree from an insti-

tution of approved standing who have the equivalent of a 1.4 average in all work taken and a satisfactory score on the Law School Admission Test given by the Educational Testing Service of Princeton, New Jersey, may be considered for admission to the School of Law and take any subject or course of study approved by the Dean of the School; provided, however, that students who are candidates for the degree of Juris Doctor shall follow the regular course of study.

2. Undergraduate students who desire to be admitted to courses in law must have finished three-fourths of the work required for a baccalaureate degree with a quality point average of 1.5. For further detail regarding law credit for such courses, see sub-heading Combined Six-Year Program at page 96.

3. Within the discretion of the faculty of the School, persons of exceptional promise who fail to meet the above requirements may be admitted as special students¹ and may take subjects in law approved by the Dean of the School.

Any person who is not in good standing, academically or otherwise, at any institution previously attended will not be eligible for consideration for admission.

Subject to the above provisions, registration is the same as for the College at large. Inquiries should be addressed to the Dean of The Law School.

COURSES OFFERED

(For course descriptions see Marshall-Wythe School of Law Bulletin).

Administrative Law. First semester; lectures three hours; three credits. MR. ATKINSON.

Admiralty Law. Second semester; lectures three hours; three credits. MR. STASON.

Agency. Second semester; lectures two hours; two credits. MR. JOHNSON.

¹The number is limited in accordance with the recommendation of the Legal Education Section of the American Bar Association.

Business Associations. First semester; lectures four hours; four credits. MR. PHELPS.

Civil Procedure. First semester; lectures five hours; five credits. MR. ANDERSON.

Conflict of Laws. Second semester; lectures three hours; three credits. MR. FISCHER.

Constitutional History of Modern England. Second semester; lectures three hours; three credits. MR. McCULLY. (This is Hist. 412.)

Constitutional Law. Second semester; lectures four hours; four credits. MR. SWINDLER.

Contracts. First semester; lectures four hours; four credits. MR. TORCIA.

Creditors Rights. Second semester; lectures four hours; four credits. MR. JOHNSON.

Criminal Law. Second semester; lectures three hours; three credits. MR. TORCIA.

Criminal Law Administration. Second semester; lectures three hours; three credits. MR. WHYTE.

Equity. First semester; lectures two hours; two credits. MR. STASON.

Estate and Gift Taxation. First semester; lectures three hours; three credits. MR. CURTIS.

Evidence. First semester; lectures three hours; three credits. MR. PHELPS.

Family Law. Second semester; lectures two hours; two credits. MR. PHELPS.

Federal Income Tax Law.¹ First semester; lectures three hours; three credits. MR. FISCHER.

Federal Taxation.¹ Second semester; lectures three hours; three credits. MR. REECE.

¹Federal Income Tax Law and the Federal Taxation course can be taken only in the alternative and credit for both will not be allowed.

Future Interests. Second semester; lectures three hours; three credits. MR. CURTIS.

International Business Transactions. First semester; lectures three hours; three credits. MR. STASON.

International Law. Second semester; lectures three hours; three credits. MR. STASON.

Jurisprudence. First semester; lectures two hours; two credits. MR. SWINDLER.

Labor Law. First semester; lectures three hours; three credits. MR. WHYTE.

Legal Accounting. Second semester; lectures three hours; three credits. MR. MCNAIRY. (This is Bus. 410 in College Catalogue.)

Legal History. First semester; lectures three hours; three credits. (Not offered 1968-1969.)

Legal Method and Writing. First semester; lectures three hours; three credits. MR. TORCIA.

Legal Profession. Second semester; lectures two hours; two credits. MR. SWINDLER.

Legal Research. Both semesters; hours to be arranged; credit according to work done.

Legislation. First semester; lectures three hours; three credits. MR. SWINDLER.

Moot Court. Both semesters; one hour court practice; one credit. MR. TORCIA.

Municipal Corporations. Second semester; lectures three hours; three credits. MR. ATKINSON.

Negotiable Instruments. Second semester; lectures three hours; three credits. MR. JOLLS.

Practice Court. Second semester; trial laboratory one hour; one credit. MR. WHYTE.

Preparation of Tax Forms. Second semester; lectures two hours; two credits. MR. REECE.

Property I. First semester; lectures four hours; four credits. MR. JOHNSON.

Property II. Second semester; lectures three hours; three credits. MR. ANDERSON.

Regulation of Securities. Second semester; lectures three hours; three credits. MR. JOLLS.

Sales. First semester; lectures two hours; two credits. MR. JOHNSON.

State and Local Taxation. Second semester; lectures three hours; three credits. MR. DONALDSON.

Survey of Tax Literature. First semester; lectures three hours; three credits. MR. FISCHER.

Tax Administration and Procedure. First semester; lectures four hours; four credits. MR. DONALDSON.

Tax Research. Either semester; conferences to be arranged; credit according to work done. STAFF.

Taxation of Corporations. Second semester; lectures three hours; three credits. MR. FISCHER.

Taxation of Partnerships, Estates and Trusts. Second semester; lectures two hours; two credits. MR. CURTIS.

Torts. Second semester; lectures four hours; four credits. MR. TORCIA.

Trade Regulation. First semester; lectures three hours; three credits. MR. MARSH.

Trial and Appellate Practice. First semester; lectures two hours; two credits. MR. WHYTE.

Trusts and Estates. First semester; lectures four hours; four credits. MR. JOLLS.

Urban Land Use. Second semester; lectures three hours; three credits. MR. ANDERSON.

Virginia Procedure. Second semester; lectures three hours; three credits. MR. PHELPS.

THE FOLLOWING COURSES, ALTHOUGH TAUGHT BY MEMBERS OF THE LAW FACULTY, ARE DESIGNED FOR THE COLLEGE UNDERGRADUATE AND DO NOT CARRY LAW CREDIT.

Business Law I. First semester; lectures three hours; three credits.
MR. G. C. JONES.

Contracts, sales, negotiable instruments and agency with emphasis on the Uniform Commercial Code.

Business Law II. Second semester; lectures three hours; three credits. Prerequisite: Business Law I. MR. G. C. JONES.

Bailments and carriers, partnerships, corporations, unfair competition, bankruptcy, security transactions, property, trusts, mortgages, and insurance.

Introduction to Law. First and second semesters; lectures two hours; two credits. MR. ZEPKIN.

This course explains the nature and functions of law in society as processes resolving civil and criminal disputes, maintaining historical continuity and doctrinal consistency, protecting voluntary agreements and resolving acute social conflicts. Examples from criminal, tort, contract and labor law illustrate these processes. The student is also introduced to Federal and state court structures through which these processes are conducted and becomes familiar with the nomenclature of law.

THE DEGREE OF MASTER OF LAW AND TAXATION

OBJECTIVES

The program leading to the Master of Law and Taxation degree is designed to fill a need for competently trained persons to serve the nation in any capacity in which a thorough comprehension of all phases of taxation is an essential requirement. In the present complex status of our tax law it requires joint consideration by a lawyer, an accountant, an economist, a political scientist, and an expert in business management in order to analyze properly all aspects of a tax matter. While the program does not presume to accomplish expertness in each of these fields, it is intended to equip the student with fundamental groundwork in all and as much of advanced study in each as relates

directly to the field of taxation. This required foundation in the related fields, coupled with the twenty-five semester hours of specialized tax study, is designed to provide intensive training in tax law and ability to comprehend all of its diverse facets.

PREPARATION AND PROGRAMS OF STUDY

The Bachelor of Arts (in Business Administration—Accounting), Juris Doctor, and Master of Law and Taxation degrees may be undertaken in seven years, in which the requirements for the first two degrees are completed in a six-year combined arts and law program and the seventh year devoted to the specialized study of tax law. In addition to the courses required to be completed for the arts and general law degrees, the following courses are included by students in the taxation program, either as electives or in pursuing their field of concentration in their undergraduate work:

Mathematics: six semester hours credit in college mathematics.

Business Administration: *Financial Management* (Bus. 323), and a minimum of twenty-four semester hours credit in courses in Accounting.

Economics: *Principles of Economics* (Econ. 201, 202), *Money and Banking* (Econ. 311 or Bus. 331), *Principles and Methods of Statistics* (Econ. 307), *Public Finance* (Econ. 421), *Fiscal Policy* (Econ. 422), *Trade Regulation* (Bus. 524), *International Trade and Policies* (Econ. 472), and either *Senior Seminar* (Econ. 494) or *Seminar in Accounting* (Bus. 407), or the equivalent in credit hours and content of these courses if the baccalaureate degree was earned at a college other than William and Mary.

PROGRAM FOR COMBINED COURSES

Leading to A.B. in Business Administration (Accounting) in four years, J.D. in six years, with preparation for both Bar and C.P.A. Examinations, and Master of Law and Taxation in seven years.

FIRST YEAR

	1st Sem.	2nd Sem.
Grammar, Composition and Literature (Eng. 101, 102)	3	3
Foreign Language	4	4
Mathematics (Math. 105, 106)	3	3

	<i>1st Sem.</i>	<i>2nd Sem.</i>
Science	4	4
Physical Education	1	1
	15	15

SECOND YEAR

English Literature (Eng. 201, 202) or Humanities 201, 202.....	3	3
Foreign Language	3	3
Principles of Accounting (Bus. 201, 202)	3	3
Principles of Economics (Econ. 201, 202)	3	3
Introduction to Government and Politics (Govt. 201, 202)	3	3
Physical Education	1	1
	16	16

THIRD YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Intermediate Accounting (Bus. 301)	3	Intermediate Accounting (Bus. 302)	3
Principles of Management (Bus. 327)	3	Business Policy (Bus. 416)	3
Cost Accounting (Bus. 303)....	3	Financial Management (Bus. 323)	3
Principles and Methods of Statistics (Econ. 307)	3	Auditing (Bus. 304)	4
Money and Banking Econ. 311)	3	International Trade and Policy (Econ. 472)	3
Fundamentals of Marketing (Bus. 311)	3		16
	18		

FOURTH YEAR

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Advanced Accounting (Bus. 401)	3	Advanced Accounting (Bus. 402)	3
Accounting Systems and Data Processing (Bus. 409)	3	Family Law	2
Contracts	4	Agency	2
Seminar in Accounting (Bus. 407)	3	Federal Taxation	3
Legal Method and Writing	3	Torts	4
	16	Criminal Law	3
			17

A.B. DEGREE

The fifth, sixth and seventh year programs leading to the J.D. and the Master of Law and Taxation Degrees are specified in detail in the Law School Bulletin.

For complete course descriptions, details of the graduate program, and other information relating to the Marshall-Wythe School of Law write to the Dean of the Law School for the Bulletin.



Marine Science instructor observing a plankton sample

THE SCHOOL OF MARINE SCIENCE

PROFESSORS HARGIS (*Dean of the School of Marine Science*), ANDREWS, BLACK, BREHMER, JOSEPH, VAN ENGEL, AND J. L. WOOD. ASSOCIATE PROFESSORS DAVIS, HAVEN, NICHOLS, NORCROSS, WASS, AND L. H. WOOD. ASSISTANT PROFESSORS BAILEY, DUPUY, GRANT, MACINTYRE, PERKINS, RUZECKI, WANG, AND WEBB. INSTRUCTORS HYER, MUSICK, OWENS, WARINNER, WOJCIK, AND ZWERNER.

ASSOCIATE FACULTY MEMBERS

BICK, KENNETH F., Ph.D.—Professor of Geology, College of William and Mary

BYRD, MITCHELL A., Ph.D.—Head of Department and Professor of Biology, College of William and Mary

ELLISON, ROBERT L., Ph.D.—Assistant Professor of Geology, University of Virginia

HARRISON, P. WYMAN, Ph.D.—Director, Land and Sea Interaction Laboratory, U.S. Environmental Sciences Service Administration, Norfolk, Virginia

HEWATT, WILLIS G., Ph.D.—Head of Department and Professor of Biology and Geology, Texas Christian University, Fort Worth, Texas

HOPKINS, SEWELL H., Ph.D.—Professor of Biology, Texas A & M College, College Station, Texas

HUMM, HAROLD J., Ph.D.—Director, Marine Science Institute, University of South Florida, St. Petersburg, Florida.

LIGUORI, VICTOR A., M.A.—Assistant Professor of Sociology and Anthropology, College of William and Mary

MANGUM, CHARLOTTE P., Ph.D.—Assistant Professor of Biology, College of William and Mary

MORRILL, JOHN B., Ph.D.—Associate Professor of Biology, College of William and Mary

NELSON, BRUCE W., Ph.D.—Dean of the College of Science and Arts, University of South Carolina, Columbia, South Carolina

PEDIGO, ROBERT A., Ph.D.—Professor of Biology, St. Andrews College, Laurinburg, North Carolina

TYREE, SHEPPARD Y., Ph.D.—Professor of Chemistry, College of William and Mary

HISTORY

Virginia's interest in and concern with the sea, marine exploration, and marine life dates from earliest Colonial times. Virginia was colonized and supplied from the sea. Captain John Smith wrote of his nautical explorations and made records of the marine animals his group saw on its travels. In 1737 William Byrd's description of the mid-Atlantic seaboard colonies contained discussions of various species of marine fish and shellfish and a brief description of the Chesapeake Bay and its major tributaries.

Later in the eighteenth century Thomas Jefferson, a Visitor of William and Mary College, and Corresponding Member of the Philadelphia Academy of Natural Sciences, collected marine fossils and sent them to the Academy where they can be seen today. Jefferson, member and one-time President of the American Philosophical Society, was also interested in meteorology and geology and among other things concerned himself with such subjects as river currents, fishery problems, Mediterranean tides, navigation, distillation of fresh from sea water and use of fish oil to preserve pilings.

Marine Science in Virginia languished until the mid-1800's when Commodore Matthew Fontaine Maury, of Spotsylvania, conducted his important studies in physical oceanography and thus established this science on a sound footing. Maury's "Physical Geography of the Sea" published in 1855 is one of the classics of oceanography. Lieutenant John Mercer Brooke, another scion of the Old Dominion, who served at the old U.S. Naval Observatory with Maury, developed a deep-sea sounding apparatus which was used to study the nature of the bottom as well as water depths in the deep sea.

From Maury's time until 1940 little effort was expended in marine science, when at the urging of Dr. Donald W. Davis, Professor of

Biology, and Dr. John Stuart Bryan, President of the College of William and Mary, and certain other academicians and members of the seafood industry, the Commonwealth established its permanent marine laboratory, then called the Virginia Fisheries Laboratory.

Laboratories were first located on the campus at Williamsburg with a field station at Yorktown, and later the entire organization moved to rented quarters at Yorktown, where the Institute grew very slowly until 1950. In that year the first permanent building, now called Maury Hall, was erected on the promontory at Gloucester Point, across the York River from Yorktown. Since 1950 growth of research activities, facilities and personnel has been rapid, especially since 1955.

By establishing the laboratory "under the control and supervision of the College of William and Mary," the General Assembly recognized the necessity for its association with an academic institution and signified its interest in training marine scientists. Teaching and advising advanced undergraduate and graduate students has been an activity of laboratory scientists since 1940.

The first master's candidate was awarded his M.A. degree in 1943. Due to the slowdown resulting from World War II only two other students, both females, completed work in the years 1944-1949. Since 1950 thirty-six have taken degrees. Increased interest in marine science resulted in 1960 in enrollment of twelve graduate students. In 1961 sixteen were enrolled and in 1962, twenty. Nineteen sixty-three, 1964, 1965, 1966 and 1967 have seen twenty-three, twenty-one, thirty-seven, forty-three, and forty-nine respectively.

From 1940 the academic program of the Institute was conducted as part of the Department of Biology. In 1959 the marine training program was established by the Board of Visitors of the College of William and Mary as the Department of Marine Science. In recognition of the growing importance of marine science and the improving capability of the Department to offer advanced courses, in 1961 the Board of Visitors established the marine training program as the School of Marine Science of the College of William and Mary.

The General Assembly in 1962 changed the name, Virginia Fisheries Laboratory to Virginia Institute of Marine Science; reconstituted it as an independent agency; and provided for continued educational offer-

ing in Marine Science by permitting proper affiliation with one or more accredited institutions of higher learning. The School of Marine Science is the William and Mary affiliate.

In 1964 the long-awaited doctoral program in Marine Science was inaugurated thus completing the degree offering in this area.

FACILITIES

The main campus of the School and Institute is situated at Gloucester Point, on the York River thirteen miles from the Williamsburg campus. Under terms of the Code of Virginia, the Institute is obliged to pursue research and educational activities relative to tidal waters, *i.e.*, Chesapeake Bay and its tributaries and adjacent regions of the Atlantic Ocean. Though in the beginning its research efforts were directed almost solely toward the commercially important marine species and hydrography, its interest and area of responsibility has continually grown to cover the broad spectrum of inshore oceanography (or marine science) as well as fisheries biology. As the Commonwealth's official marine research and training institution, the Institute is actually a general marine laboratory conducting broadly oriented oceanographic inquiries in the spirit and tradition of Matthew Fontaine Maury (Pathfinder of the Seas), a native Virginian and America's first great marine scientist.

Through the offerings of the School of Marine Science, a joint venture of the College and the Institute, an unusual opportunity is afforded students of Marine Science and Marine Fisheries Biology to take advanced undergraduate and graduate training at an active, year-round center of marine research.

Because it is located on an important estuary with easy access to Chesapeake Bay and the nearby Atlantic, the Institute is admirably situated to conduct research and teaching in marine, estuarine, and freshwater biology and general hydrography. The secondary campus of the Eastern Shore Branch Laboratory at Wachapreague, Virginia, re-established in 1959, offers access to the embayments, salt marshes, and barrier beaches of Virginia's Eastern Shore.

The main laboratory, Matthew Fontaine Maury Hall, constructed in 1950, is equipped with running sea water, compressed air, gas, a cold room, chemistry laboratory, instrument laboratory, and an extensive

and growing reference library. Brooke Hall (named after Lt. John Mercer Brooke, Virginia oceanographer and inventor of the Brooke "deep-sea sounding apparatus") completed in 1958, contains offices, classrooms, and other laboratory facilities. Davis Hall was built in 1961 to house the Department of Microbiology-Pathology. Its name honors Dr. Donald W. Davis, former Professor of Biology at William and Mary, who was most instrumental in bringing about establishment of this facility. Byrd Hall, now under construction and due for occupancy in 1969, will house chemistry, physiology and data processing. It is dedicated to the memory of Admiral Richard Evelyn Byrd, one of Virginia's foremost explorer scientists. Three separate salt water buildings provide additional experimental facilities and the several maintenance buildings provide necessary support. The specially designed 55-foot diesel-powered research vessel *PATHFINDER* is equipped with radio-telephone and modern biological and oceanographic instruments. The converted ferry, *RV LANGLEY*, serves as floating laboratory for work in Chesapeake Bay. Several auxiliary and outboard motorboats, and rowboats are available.

Several Institute-owned cottages and houses provide limited quarters for married and single students and visiting investigators.

PROGRAM

The program of the School of Marine Science is primarily intended for the advanced student who wishes to specialize in Marine Science or Oceanography. The degrees offered by the College of William and Mary are the Master of Arts and Doctor of Philosophy in Marine Science. Majors in Biological Oceanography (Marine Biology), General Oceanography and Marine Fisheries Biology are available at both levels. Within these general areas, study in several specialties may be undertaken—for example, Physical Oceanography, Geological Oceanography, Marine Pollution Biology, etc. Others are planned. Though the program is chiefly for graduate students, certain courses are open to advanced undergraduates. At the present time the curriculum leading to the Master of Arts in Marine Science comprises a number of formal courses, a methods course, two problems courses, one seminar course, and a thesis course. The curriculum for the Doctor of Philosophy Degree consists of such formal courses in Marine Science and collateral fields as are necessary to the student's interests and program.

In summer qualified undergraduate students may take advanced training in Invertebrate Ecology, Marine Science, Physiology, and other subjects as scheduled. Special summer research courses in Marine Science for qualified science teachers and undergraduate biology majors are offered as funds are available. Financial assistance is generally available to qualified graduate and undergraduate students and to participating teachers.

As in most marine institutions, activities are accelerated in the summer. From four to six scientists are added to the research and teaching staff. In addition to regular academic courses offered, the Institute has recently been associated with the National Science Foundation in two valuable summer training programs. Under one, college teachers are brought to Gloucester Point. In the other, ten students are brought to the Institute in the Undergraduate Research Participation Program. In both programs, enrollees participate in research projects. An additional ten to fifteen students are supported by the Summer Aide Program which is designed to acquaint them with marine research activities and to encourage their interests.

Because the *entire* organization is marine-oriented and all of the faculty is engaged in research, students have a better than usual opportunity to become intimately familiar with the field. This advantage is increased by the fact that the student's entire training program is carried out on the seacoast. The sea, itself, is a constant classroom companion.

PREPARATORY STUDIES

It is recommended that students who are seriously interested in Marine Science as a profession consult with the Dean of the School as early in their college careers as possible regarding an academic program to be followed. The student interested in Marine Biology (Biological Oceanography) or Marine Fisheries Biology should plan to take such subjects as Genetics, Comparative Anatomy of Vertebrates, Comparative Anatomy of Invertebrates, Histology, Embryology, Systematic Botany, Microbiology; several courses in Chemistry, *i.e.*, General, Qualitative and Quantitative, Organic and, if possible, Biochemistry; and General Physics. College mathematics through Trigonometry is very important. The calculus is recommended.

The prospective student of General Oceanography should have an undergraduate major in Physics, Meteorology, Chemistry, Mathematics or Geology. Students of the first three subjects should have taken Fluid Mechanics or Gas Dynamics or similar subjects and have Mathematics through the Calculus.

In all disciplines an overall grade average of at least C+, with B (2.0 in a 3 point system) in the major field is desirable.

ADMISSION REQUIREMENTS

Though the courses offered by the School are primarily for graduate students, advanced undergraduates (juniors and seniors) may participate. For instance, Biology, Chemistry and Physics majors may enroll in suitable 400 level courses. An undergraduate major in Chemistry, Geology, Physics, or Psychology may work on a marine problem in his field of specialization. Consent of the Chairman of the student's major department is required to take problems courses in Marine Science. Summer courses offered by the School are available to all qualified students from William and Mary Colleges, schools and departments as well as other institutions of higher learning.

Graduate students will be admitted either to regular graduate or to unclassified graduate status. All applicants for admission to regular graduate status shall be cleared through the central admissions office in cooperation with the office of the Dean of Graduate Studies of the College at Williamsburg and be subject to the approval of the Committee on Graduate Studies of the School of Marine Science.

An applicant for admission to graduate study must have completed the requirements for a bachelor's degree in an institution of approved standing. Majors in the natural sciences are preferred. He must have achieved a minimum quality grade-point average of 1.5 (based on a 3 point system) or its equivalent. Applicants with higher grade-point averages will be given preference.

Applicants for admission to regular graduate status are required to take Graduate Record Examination. This must include the aptitude as well as the advanced portions of the test.

Inquiries should be addressed to the Dean of the School of Marine Science, Gloucester Point, Virginia.

CURRICULUM

Occasionally, approved marine science courses are offered at Williamsburg, but most are conducted at the marine laboratory at Gloucester Point. Accordingly, students commuting between campuses must schedule classes so as to allow adequate time between them. Usually thirty minutes are required to make the passage.

DESCRIPTION OF COURSES

Marine Science 401. Introduction to Physical Oceanography. First semester; lectures and laboratory; three credits. Prerequisite: Physics 101-102, Math 101-102. MR. RUZECKI.

Physical properties of sea water, descriptive oceanography, air-sea interactions, heat budget, methods and measurements, dynamics of circulation, waves and tides.

Marine Science 402. Introduction to Chemical Oceanography. First semester; lectures and laboratory; three credits. Prerequisite: Chemistry 101-102. MR. MACINTYRE.

Chemical properties and their distribution in the sea, nutrients, carbon dioxide system, methods of sea water analysis.

Marine Science 403. Introduction to Biological Oceanography. First semester; lectures, laboratory, and field trips; three credits. STAFF.

Principles and concepts of marine ecology. Characteristics and dynamics of communities and ecosystems of the oceans and fringing estuaries and marshes. Interactions of hydrosphere, lithosphere and atmosphere in biogeochemical cycles, energy flow and nutrient supply. Occurrence and distribution of marine organisms in relation to biological, chemical, geological and physical attributes of marine environments. Introduction to applied ecology, including fisheries, pollution, and engineering problems.

Marine Science 404. Introduction to Geological Oceanography. First semester; lectures and laboratory; three credits. MR. NICHOLS.

Topography and sediments of the sea floor and coastal environments. Origin of the Geological processes.

†405. **Problems in Marine Science.** Both semesters; hours to be arranged; credit according to performance, maximum four credits. STAFFS OF THE SCHOOL OF MARINE SCIENCE AND COOPERATING NATURAL SCIENCE DEPARTMENTS.

Supervised projects selected to suit the needs of the advanced undergraduate student. Projects to be chosen in consultation with the head of the student's major department, the supervising professor and the Dean of the School of Marine Science. Acceptable topic outlines and terminal project reports are required.

†406. **Introduction to Marine Science.** Summer session and extension; lectures, laboratory, and field trips twenty-six hours per week for five weeks; five credits. STAFF.

A general introduction to marine science including biological, chemical, geological and physical oceanography.

*407. **Biometry I.** Second semester; lecture and laboratory six hours; four credits. MR. NORCROSS.

Application of statistical methods to analysis of pertinent scientific data. Chi-square, "t" test, analysis of variance, regression analysis. Introduction to the use of electronic data processing.

†410. **Marine and Freshwater Invertebrates.** Summer session; lectures, laboratory and field trips twenty-six hours per week for five weeks; five credits. STAFF.

Classification and identification, adaption, ecology, life histories. Local marine, estuarine and freshwater forms emphasized.

†412. **Marine Botany.** Summer session; lectures, laboratory and field trips twenty-six hours per week for five weeks; five credits. STAFF.

A general introduction to the ecology and systematics of algae and spermatophytes encountered in the marine environment.

*415. **Marine Botany—The Fungi.** Summer session; lectures, laboratory and field trips, twenty-six hours per week for five weeks; five credits. STAFF.

An introduction to the ecology and systematics of the fungi and fungus-like plants encountered in the marine environment.

†501. **Marine Science Seminar.** Both semesters; hours to be arranged; one credit each semester; maximum three credits. STAFF.

*502. **Biological Oceanography.** First semester; lecture and laboratory eight hours; five credits. MR. LANGLEY WOOD and STAFF.

†503. **Advanced Problems in Marine Science.** Both semesters; hours to be arranged; credit according to performance; maximum four credits. STAFF.

*504. **Biology of Selected Marine Organisms.** As required; lectures and laboratory seven hours; five credits. MR. ANDREWS, MR. VAN ENGEL and MR. HAVEN.

*505. **Radiobiology.** As required; lectures and laboratory seven hours; five credits. MR. BREHMER and MR. WARINNER.

*506. **Biology of Plankton.** As required; lectures, recitation and laboratory seven hours; five credits. STAFF.

*507. **Marine Microbiology.** As required; lectures and laboratories seven hours; five credits. Prerequisites: Biology 301, 302, Chemistry 301, 302. MR. JOHN WOOD.

*508. **Ichthyology.** As required; lectures, laboratory and field trips seven hours; five credits. Prerequisites: 13 credits in biology including Comparative Anatomy of Vertebrates. MR. JOSEPH.

*509. **Physical Oceanography.** As required; lecture, demonstration, laboratory and cruise seven hours; five credits. MR. RUZECKI and STAFF.

*510. **Pollution Biology.** As required; lecture and laboratory seven hours; five credits. MR. BREHMER.

*511. **Geological Oceanography.** As required; three hours lecture and cruise; three credits. Prerequisites: General or Physical Geology. MR. NICHOLS.

*512. **Parasites of Marine Organisms.** As required; lecture and laboratory seven hours; five credits. MR. HARGIS and STAFF.

*513. **Marine Biogeography.** As required; lectures three hours; three credits. MR. WASS.

***514. Littoral Processes.** As required; lecture and field work six hours; four credits. Prerequisite: Marine Science 401 and consent of instructor. MR. NICHOLS.

***515. Embryology of Marine Invertebrates.** As required; lectures and laboratory seven hours; five credits. Prerequisite: 13 credits in Biology. MR. BLACK.

***516. Advanced Physical Oceanography.** As required; lectures three hours; three credits. Prerequisites: Marine Science 401, Mathematics 201, 202, 203, 302, Physics 207, 208, 302. STAFF.

***517. Behavior of Marine Organisms.** As required; lecture and laboratory seven hours; five credits. Prerequisites: Biology 101, 102, Marine Science 401, 402. MR. LANGLEY WOOD.

***518. Marine Fishery Science.** As required; lecture, laboratory and field trips seven hours; five credits. MESSRS. DAVIS and JOSEPH.

***519. Biometry II.** As required; lecture and laboratory six hours; four credits. Prerequisite: Biometry I or equivalent. MR. VAN ENGEL.

***520. Comparative Animal Physiology.** (Jointly with Biology 520) Second semester; lectures; three credits. Prerequisite: acceptable course in physiology. MISS MANGUM and MR. LANGLEY WOOD.

***521. Chemical Oceanography.** As required; lectures three hours; laboratory and cruise two hours; four credits. Prerequisites: Chemistry 101, 102, 201, 202 or equivalent, Mathematics 101, 102 or 103, 104, Physics 102. MESSRS. MACINTYRE and BREHMNER.

***522. Comparative Animal Physiology Laboratory.** (Jointly with Biology 522) Second semester; laboratory, four hours; two credits. Prerequisite or corequisite: Marine Science 520. MISS MANGUM and MR. LANGLEY WOOD.

***523. Topics in Applied Marine Science.** Both semesters; hours to be arranged; credit according to arrangement and performance; maximum four credits. STAFF.

***524. Physiology of Marine Organisms.** Second semester; alternate years; lectures, laboratory and field trips seven hours; five credits. Prerequisites: Biology 101, 102, Chemistry 301, 302. STAFF.

Major physiological processes will be considered. Special attention

will be given to those processes in which evolutionary trends are apparent.

†560. **Thesis.** Both semesters; hours to be arranged.

660. **Dissertation.** Both semesters; hours to be arranged.



Looking into the reference room from the lobby of the Swem Library

THE SCHOOL OF CONTINUING STUDIES

PROFESSORS HERRMANN (*Dean of the School of Continuing Studies*), CLEM. ASSOCIATE PROFESSOR LOONEY (*Associate Dean of the School of Continuing Studies*). INSTRUCTORS PURCELL AND STORY.

THE SCHOOL OF CONTINUING STUDIES was established by the Board of Visitors in 1968 as an instrument for making the educational program of the College available to part-time students, especially the adult population of Tidewater Virginia. At present, Continuing Studies serves primarily an administrative function for the courses and programs of the other schools and faculties of the College. The major activities of the School are described below.

THE EVENING COLLEGE

The College initiated a program of evening courses in 1952, to enable residents of Tidewater communities and military personnel stationed in the area to earn residence credits which might be applied toward a degree at William and Mary or transferred to other institutions.

The program includes a selection of graduate and undergraduate courses from the regular curricula of the College. Instruction is provided primarily by members of the regular faculty. At present students may earn graduate degrees in Business and Education by attending evening classes.

All students or prospective students may obtain assistance with program planning and related problems by appointment with the Director. Call 229-3000, Extension 238, for an appointment.

THE EXTENSION DIVISION

The Extension Division was developed as a means of providing college level courses for Virginians, particularly the residents of Tidewater, who are unable to avail themselves of the educational opportunities on the campus. At present most of the courses taught in Extension are selected from the general catalogue and are offered for credit. Non-credit courses and seminars may be organized upon request.

With few exceptions, courses offered for credit meet weekly for sixteen sessions of three hours each and carry three semester hours of academic credit. Most of these classes meet during the evening hours. A limited number of credits earned in Extension courses may be applied toward degrees at the College of William and Mary. *Students who have been admitted to candidacy for a degree should have their courses approved by their advisors.* These credits may also be transferred to another institution with the approval of the institution in question.

Extension courses, available in more than forty separate locations, are largely administered through the Coastal Area Extension Center, The Lower Peninsula Extension Center, and the Capital Area Extension Center. Courses are also available each semester at Fort Eustis, Fort Lee, Fort Story, Fort Monroe, Langley Air Force Base, Oceana Naval Air Station, and the Little Creek Amphibious Base. Courses may be organized in other Tidewater communities by request.

Registration for Extension courses is processed at the first class meeting unless otherwise specified in the bulletin. Prospective students who have not established eligibility may be registered provisionally pending presentation of evidence of good standing. Provisional registrations are automatically cancelled if such evidence is not presented before the course is completed.

THE SUMMER SESSION

The Summer Session is planned to provide courses for undergraduate and graduate students enrolled in liberal arts programs; to provide professional training in Business Administration, Education and Law; and, to furnish basic instruction in pre-professional programs, such as Forestry, Engineering, Medicine, Dentistry, Law, and the Ministry. Provision is made also for meeting the educational needs of high school graduates who wish to begin college work in the summer in order to accelerate the completion of their college program.

The Summer Session is an integral part of the educational program of the College of William and Mary and the opportunities for study are essentially the same as in the regular session. Courses are carefully selected from the regular session curriculum and are supplemented by programs specifically designed to meet the interests and needs of

students who attend the Summer Session. Instruction is provided by regular members of the William and Mary faculty supplemented by specialists from other institutions.

The Summer Session consists of two terms of five weeks each. Students may enroll for either or both terms. Courses in Law are taught on a nine-week schedule. Certain short courses for teachers are also available. Six semester hours constitutes a full course load for each five-week session.

THE VIRGINIA ASSOCIATED RESEARCH CENTER

In accordance with the reorganization plan authorized by the Governor of Virginia in the summer of 1967, the Virginia Associated Research Center, located approximately 14 miles from the William and Mary campus, became a graduate center of the College of William and Mary. This Center involves the operation and management of one of the largest space radiation effects laboratories in the country. Its operation involves cooperation with the National Aeronautics and Space Administration, and provides extensive research opportunities for the College of William and Mary as well as Old Dominion College, the University of Virginia, Virginia Polytechnic Institute, Virginia Commonwealth University, and out-of-state institutions of higher learning on a wide regional basis.

The Center also provides a graduate program in science and engineering in which the College is one of the cooperating institutions. The courses approved for the cooperative program are listed and described in the VARC bulletin which may be obtained at the VARC site or through the School of Continuing Studies. Sections of regular William and Mary graduate courses in Business, Education and related disciplines are also taught at the Center.

The facilities of the Center are utilized to supplement and enhance the graduate programs of the College in physics, biology, chemistry and mathematics. It is anticipated that the program at VARC will be further strengthened and diversified as additional facilities become available.

ADMISSIONS POLICIES AND PROCEDURES

The essential requirement for the initial enrollment of a student in

any program included in the School of Continuing Studies is presentation of evidence of graduation from an accredited secondary school or the equivalent as established by examination. Students with previous college experience must present evidence of good standing at the last such institution attended. If there appears to be a reasonable doubt of the ability of the individual to maintain a satisfactory level of performance at the college level, further evidence in terms of test results or transcripts of previous work may be requested. After eligibility has been established, the student remains in good standing unless notified to the contrary by the College.

Students who have established eligibility for enrollment in the School of Continuing Studies may enroll in any division thereof. Degree candidates and special students admitted to William and Mary through the Dean of Admissions are also automatically eligible. Undergraduate students who have requested admission only to programs administered by the School of Continuing Studies will be classified as non-matriculated students until such time as they are admitted to a degree program. Non-matriculated students who wish to earn undergraduate degrees at William and Mary must make application through the Dean of Admissions prior to the completion of 30 credits. Graduate students must comply with the regulations of the appropriate School or faculty. Admission to the School of Continuing Studies should not be construed as including admission to the day session or to any degree program of any other school or faculty of the College.

Prospective students who have never attended William and Mary should follow the application and registration procedures outlined in the current Evening College and Extension Division Bulletin or the Summer Session Catalogue. The necessary forms are included in the bulletins. Since part-time students typically do not maintain a continuous enrollment, all students are requested to submit an application form for each semester or session of Evening College and Summer Session which they plan to attend in order to expedite the registration process.

TUITION, FEES AND EXPENSES

The basis for tuition for courses taken by part-time students in the School of Continuing Studies is the semester hour of credit. Effective

June 1, 1969, the tuition for all programs in Continuing Studies except the cooperative engineering program at VARC will be \$18 per semester hour of undergraduate credit and \$20 per semester hour of graduate credit.

Graduate students who register for more than eight semester hours or undergraduate students who register for more than eleven semester hours in any combination of courses in Day School, Evening College and the Extension Division in any semester will be classified as full-time students and will be charged full tuition including the out-of-state fee. (See page 84.) No non-resident fee will be charged for part-time or Summer Session students. Laboratory fees or charges for expendable materials may be assessed in some courses.

A registration fee of \$5.00 per student is charged in Summer Session only. Rent for dormitory rooms for summer students range from \$6.50 to \$14.00 per week. Meals are available in College dining rooms and are served a la carte.

BULLETINS AND INFORMATIONAL MATERIALS

Bulletins of information including all course offerings and class schedules for Evening College and Extension are published each year in August, January and May. Copies may be obtained by contacting the Director of Evening College and Extension, College of William and Mary, Williamsburg, Virginia 23185.

A preliminary announcement of Summer Session, including a tentative list of course offerings, is published each January followed by a complete Summer Session catalogue in March which includes all necessary application forms. Special bulletins are available describing the Summer Band School, the Institute for Teachers of Science and other special programs. Copies may be obtained from the Director of Summer Session, College of William and Mary, Williamsburg, Virginia 23185.

A bulletin describing the program in graduate engineering at VARC may be obtained by contacting the Registrar, Virginia Associated Research Center, 12070 Jefferson Avenue, Newport News, Virginia 23606. Other courses taught at the VARC site are included in the program of the Evening College.

PRE-PROFESSIONAL PROGRAMS

Dentistry, Engineering, Forestry, Medical Technology, Medicine, and Veterinary Medicine

Students may follow programs at William and Mary within a liberal arts framework which will prepare them for study in Dentistry, Engineering, Forestry, Medical Technology, Medicine, and Veterinary Medicine. The pre-professional programs in Engineering and Forestry are prescribed because of cooperative programs with other institutions. Students who are interested in other pre-professional programs in Dentistry, Medical Technology, Medicine, and Veterinary Medicine, should plan their programs in consultation with their advisor.

PREMEDICAL AND PREDENTAL PROGRAMS

There are no specific premedical or predental programs. Students preparing themselves for admission to medical or dental school may choose to concentrate in any department. Although medical schools in general have no preference as to major field of undergraduate study, they do believe that the student should pursue a coherent program with some depth.

A liberal education is appropriate to preparation for a career in medicine. The physician should be able to use and to understand both the written and spoken language. Moreover, those who have cultivated an interest in philosophy, history, and the arts can enrich their own lives and, in so doing, may become more effective members of their communities.

For the country at large most medical school graduates now earn their baccalaureate degree; some of these students spend only three years in the liberal arts college and receive the college degree after completing the first year in medical school or, as in the case of William and Mary, upon the completion of the medical course. Certain schools now have combined liberal arts-medical programs wherein the students spend only two years in the liberal arts college.

The foundation of medicine is the natural sciences. All medical schools include in their admission requirements four laboratory science courses: biology, inorganic chemistry, organic chemistry and general physics. The calculus is rapidly assuming the same importance. At William and Mary, the above courses are Biology 101-102, Chemistry 101-102, Chemistry 201-202, Physics 101-102, Physics 103-104 and Mathematics 201-202. Science courses in addition to these minimal requirements are required by some medical schools and viewed with favor by many others. In any case, the student's choice of courses should be balanced and should reflect his overall intellectual development.

The premedical advisors at William and Mary encourage students to complete four years before going to medical school, for a liberal arts program reaches its full meaning in the final years; to terminate such a program after three years is to lose its unique significance. Future success in medical school and in medical practice depends in great measure on the competence and attitudes developed during the liberal arts program.

Since medical schools begin to reach decisions on applicants for admission early in the senior year on the basis of records established at that time, it is advantageous that the minimal required science courses be completed in the first three years. Every premedical student is encouraged to seek academic guidance early in his career through scheduled consultations with a premedical advisor.

Preparation for Engineering

Students may prepare in this College for entrance to the Junior class of any standard engineering school. In making this preparation students will find it necessary to make an early selection of the branch of engineering and the engineering school which they wish to enter in order that their courses may be chosen in accordance with the requirements of their engineering school. It is strongly urged that students seek advice from the Committee on Pre-Engineering Students in adapting their courses to fit the particular branch of engineering they propose to follow.

The course outlined below will be found to meet the general requirements for all branches of engineering.

	<i>Semester Credits</i>
English	6
Mathematics	15 (or 12)
Engineering Drawing and Descriptive Geometry	3 to 6
Physics	8
Chemistry	8

For special branches of engineering the following additional courses are recommended: two years of Physics for Nuclear, Electrical and Mechanical Engineering; an additional year of Chemistry for Chemical, Mining, and Sanitary Engineering; a year of Biology for Sanitary Engineering.

The course for engineering students may be fitted into the regular program leading to a B.S. degree and this procedure will afford the engineering student a broad training for this professional work. The completion of the program ordinarily requires four years, but engineering students who complete three years in residence and fulfill degree requirements, except the completion of a field of concentration, with a minimum quality point average of 1.2, will, upon application, be granted the B.S. degree of this College on graduation from an approved engineering school.

PROGRAM IN COOPERATION WITH LEADING ENGINEERING COLLEGES

The College has combined plan agreements with the School of Engineering, Columbia University, the School of Engineering Science, The Johns Hopkins University, and the School of Engineering, Rensselaer Polytechnic Institute. Under these arrangements, and by properly planning his studies to include the basic sciences and humanities, a student of high standing may pursue a combined five-year program in which the first three years are spent at the College and the last two at the institution of his choice, leading to the bachelor's degree from each institution.

Other arrangements lead to a bachelor's degree from William and Mary and a master's degree from an engineering school after a total of five or six years of study.

The following is the program of courses to be taken at the College of William and Mary.

FIRST YEAR

	1st Sem.	2nd Sem.
Grammar, Composition and Literature (Eng. 101, 2)	3	3
Freshman Mathematics (Math. 103, 201 or Math 201, 2)	3	3
Elementary General Chemistry (Chem. 101, 2)	4	4
General Physics (Phy. 101, 2)	4	4
Physical Education (Required Phys. Ed.)	1	1
	—	—
Total Semester Credits	15	15

SECOND YEAR

English Literature (Eng. 201, 2)	3	3
Calculus (Math. 201, 2 or Math. 203, 302)	3	3
Foreign Language (French or German)	4	4
European History (Hist. 101, 2), Government (Govt. 201, 2) or Sociology (Soc. 201, 2)	3	3
Intermediate Physics (Phys. 201, 2)	3	3
Intermediate Experimental Physics (Phys. 251, 2)	1	1
Physical Education (Required Phys. Ed.)	1	1
	—	—
Total Semester Credits	18	18

THIRD YEAR¹

Selections from the following:

Foreign Language	3	3
Mathematics 311, 312	3	3
Engineering Drawing and Descriptive Geometry (Engineering Graphics 201, 2)	3	3
Experimental Physics (Phys. 351, 2)	1	1
Classical Mechanics (Phys. 301, 2)	3	3
or Analytical Chemistry (Chem. 303, 4)	4	4
Thermodynamics (Phys. 311)	3	—
Modern Physics (Phys. 312)	—	3
Principles of Economics (Econ. 201, 2)	3	3

Students preparing for special programs not mentioned above should consult with the Chairman of the Committee on Pre-Engineering Students.

¹ Students preparing for Chemical Engineering or Metallurgy should elect Analytical Chemistry and omit Mechanics. For Civil, Mechanical, Nuclear and Electrical Engineering programs, Mechanics should be elected and Analytical Chemistry omitted. Those who elect Analytical Chemistry may find it desirable to include it in the second year program, postponing European History to the third year.

Preparation for Forestry

Students may prepare at William and Mary for entrance into forestry schools at other institutions. Here they obtain a sound education in the humanities and other liberal arts in addition to the sciences basic to forestry.

The College offers a special program in cooperation with the School of Forestry of Duke University. Upon completion of a five-year co-ordinated course of study the student will have earned the Bachelor of Science degree from William and Mary and the professional degree of Master of Forestry from Duke University. The student devotes the last two years of his program to the professional forestry curriculum of his choice at Duke, where forestry courses are open only to seniors and to graduate students.

Candidates for the forestry program should indicate to the dean of Admissions of the College of William and Mary that they wish to apply for the Liberal Arts-Forestry curriculum. Admission to the College is granted under the same conditions as for other curricula. At the end of the first semester of the third year the College will recommend qualified students for admission to the Duke School of Forestry. Each recommendation will be accompanied by the student's application for admission and by a transcript of his academic record at William and Mary. No application need be made to the School of Forestry prior to this time.

Pre-Forestry Curriculum at William and Mary.

FIRST YEAR

	<i>1st Sem.</i>	<i>2nd Sem.</i>
Eng. 101, 102	3	3
Ancient or Modern Foreign Language	4	4
Biol. 101, 102	4	4
Math. 103, 201 or 201, 202	3	3
Phys. Ed. 101, 102	1	1
Electives	1-2	1-2
	16-17	16-17

SECOND YEAR

	1st Sem.	2nd Sem.
Eng. 201, 202	3	3
Ancient or Modern Foreign Language	3	3
Chem. 101, 102	4	4
Biol. 401; Biol. 206 or Biol. 412	4	4
Electives	1-3	1-3
	15-17	15-17

THIRD YEAR

Econ. 201, 202	3	3
Govt. 201, 202	3	3
Biol. 301 or Elective Biology	4	—
Biol. 419	—	4
Physics 101, 102	4	4
Electives	1-3	1-3
	15-17	15-17



*The reading room of the Institute of Early American History
and Culture*

INSTITUTE OF EARLY AMERICAN HISTORY AND CULTURE

THE INSTITUTE of Early American History and Culture was established in 1943 by the union of certain historical research and publication activities of the College of William and Mary and Colonial Williamsburg, Incorporated. The College contributed *The William and Mary Quarterly*, a historical periodical published since 1892, and the use of the rich resources of its library, while Colonial Williamsburg contributed the Williamsburg Restoration Historical Studies, its program of research fellowships, and the use of its important manuscript collections. The board of editors of the *Quarterly* and the Restoration's advisory council of historians were merged to form the first Council of the Institute, an advisory board drawn from the nation at large. The membership of the present Council is given below.

By promoting the study of early American history the Institute aims, in the words of its Constitution, "to preserve and advance understanding of the enduring contributions of the colonists and the founders of the Republic." It does so by the publication of significant books and articles in the field of early American history from the beginnings through the Jeffersonian era, by teaching and consultation, and by the acquisition of research materials on microfilm. Its collection of early American newspapers on film is one of the largest extant. Its publication of the *Virginia Gazette Index* (1950) provides the only comprehensive index to a series of important colonial newspapers so far made available to researchers.

The Institute cooperates in many ways and to the fullest possible extent with historical activities of both the College and Colonial Williamsburg, but it is an autonomous organization with a separate and distinct program which is national rather than local. Its books, published over a joint imprint with the University of North Carolina Press, and the articles appearing in *The William and Mary Quarterly* are directed to the widest possible audience.

INSTITUTE OF EARLY AMERICAN HISTORY AND CULTURE

The director of the Institute is Lester J. Cappon. On his staff are:

Stephen G. Kurtz, editor of publications in charge of the book publication program, and Joy Dickinson, assistant editor; Thad W. Tate, editor of *The William and Mary Quarterly*; Mary Anne O'Boyle, assistant editor of the *Quarterly*; Bernard W. Sheehan and Sung Bok Kim, fellows; John E. Selby, book review editor of the *Quarterly*. Mr. Kurtz is editor (part-time), Herbert A. Johnson is associate editor, and Nancy Harris is assistant editor of *The Papers of John Marshall*. Mr. Cappon is also archival consultant of Colonial Williamsburg, and Messrs. Cappon, Johnson, Kim, Kurtz, Selby, Sheehan, and Tate are members of the Department of History at the College.

The *Papers of John Marshall*, under a grant from the National Historical Publications Commission and an appropriation from the General Assembly of Virginia, supplemented by funds from private sources, will be a definitive edition of the works of the Chief Justice.

The offices of the Institute and of *The William and Mary Quarterly* are in the Earl Gregg Swem Library on the College campus. The postal address is Box 220, Williamsburg, Virginia 23185.

The sponsors of the Institute are Davis Y. Paschall, President of the College of William and Mary, and Carlisle H. Humelsine, President of Colonial Williamsburg, Incorporated.

INSTITUTE COUNCIL AND COMMITTEES

1968-69

Term Expires May 1969

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THE MARSHALL-WYTHE INSTITUTE FOR RESEARCH IN THE SOCIAL SCIENCES

THE MARSHALL-WYTHE Institute for Research in the Social Sciences consists of representatives from the Departments of Economics, Government, History, Sociology, Anthropology, the School of Business Administration, and the Marshall-Wythe School of Law. The Director of the Institute is the John Marshall Professor of Government. In 1926, through the generosity of James Gould Cutler, Esq., Rochester, New York, a fund of approximately \$100,000 was established, the income to be applied toward the salary of the John Marshall Professor of Government and Citizenship and for other purposes.

The Institute conducts a symposium, known as the Marshall-Wythe Symposium during the second semester. One semester credit is given in this course, and a student may, in successive terms, receive a maximum of two credits. It will also arrange lectures on current topics relating to the social sciences, and develop research among the social science departments.

THE INFORMATION OFFICE

THE COLLEGE helps keep its community and the public informed of its activities through the Public Information Office, which maintains a comprehensive, full-time informational and public relations program. The office, supervised by a director, is the channel for all information about the College to the public, and provides assistance in internal communication. It also prepares a weekly faculty newsletter, "Colleague," which includes a calendar of events at the College.

The office prepares news releases on College events, operates a home-town news service staffed by students, assists the institution in its relationships with news media, and through special programs, publications and other appropriate means seek to interpret the College to various segments of the public.

It keeps a file of biographical data and photographs on all personnel at the College and maintains a growing collection of clippings and other material on day-to-day campus activities. Prospective students, historians and educators from every state and many foreign countries obtain its assistance in answer to inquiries about the College.

THE WILLIAM AND MARY ENDOWMENT FUND

THE ENDOWMENT ASSOCIATION

The affairs of the Association, a private corporation, are conducted by a self-perpetuating elected Board of from nine to fifteen members. The present membership of the Board is as follows:

DAVIS Y. PASCHALL, '32, Williamsburg, *President*
ALVIN DUKE CHANDLER, '22x, Virginia Beach, *Vice-President*
ROBERT T. ARMISTEAD, '36, Williamsburg
J. D. CARNEAL, JR., '20, Richmond
ROY R. CHARLES, '32, Norfolk
MRS. ALFRED I. DUPONT, Wilmington, Delaware
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J. EDWARD ZOLLINGER, '27, Ft. Lauderdale, Fla.

VERNON L. NUNN, *Secretary-Treasurer*
FLOYD WHITAKER, *Assistant Treasurer*

The income from the Association's funds is used to support scholarships, Chancellor professorships, and other general College purposes. The objectives of the Endowment Association are contained in the charter and by-laws, copies of which may be obtained on request.

THE FRIENDS OF THE COLLEGE

The Friends of the College number fifty-two. Annual memberships of this organization are \$100; life memberships, \$1,000. The income of the Friends is spent currently at the discretion of the President of the College for the support of concerts, lectures, the Musical Records Collection, the War Memorial Book Shelf, undergraduate activities, and scholarship aid.

GIFTS AND BEQUESTS

Although the College of William and Mary derives a certain amount of its financial support from appropriations from public funds by the General Assembly of the Commonwealth of Virginia, the remainder of the money required for its operation—and particularly for the qualitative development of its research and educational services—must come from endowment funds, gifts, bequests, and other types of support from a variety of nontax or nonpublic sources. In a period of steadily increasing demands for additional or enlarged services of various types, all colleges—those which are entirely privately supported, those which are entirely state-supported, and those which, like the College of William and Mary, rely on both public and private funds—must look to their friends, alumni, and others interested in the continued growth of higher learning, for the economic assistance necessary to support their educational program.

This economic assistance may take the form of single or continuing grants from educational foundations, or from private corporations, or from individuals. The individual gift may be either a lifetime or a testamentary gift or bequest. It may be a general gift, to be used for such purposes as the College may itself determine; or it may be a specific gift for a purpose desired by the donor or proposed by the College. It may be a gift large enough to cover the entire cost of establishing and maintaining a particular structure or activity, or it may be an integral part of a fund representing several gifts whose aggregate will suffice to meet the necessary cost of the total project.

A wide variety of essential activities of the College may be aided fundamentally by such gifts and bequests. Scholarships and fellowships, with their attendant supplemental grants to the College to cover the extra costs incurred in accepting such scholarship and fellowship holders as students, are one of the most general categories of such private support. Similarly, grants in aid of staff salaries, including the creation of endowed chairs and of distinguished professorships, are increasingly needed by institutions such as the College of William and Mary, to meet the competition of private industry and other educational agencies which are continually bidding for the services of such trained personnel. Research grants, funds to finance the purchase of rare manuscripts and related scholarly materials, exchange professor-

ships and scholarships to permit students and faculty from the College to study abroad and to bring to this campus their counterparts from foreign universities, are other continually needed contributions. Finally, the College has occasionally benefited from gifts for a variety of major capital projects (e.g., building) for which future gifts and bequests will be welcomed.

Gifts. Lifetime gifts, or gifts by corporations, individuals, or foundations should be made to The Endowment Association of the College of William and Mary in Virginia, Inc.

Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of The Endowment Association. Usually the proceeds, conservatively invested, are added to the permanent endowment of the College of William and Mary. The donor may, however, restrict the use of any gift and designate definitely the purposes for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other documents describing in detail the purposes for which the proceeds of the gift are to be used and when accepted by The Endowment Association the term or conditions set out therein become binding upon it.

Bequests. Testamentary gifts, or bequests, should be made to The Endowment Association of the College of William and Mary in Virginia, Inc. Bequests may be made by setting their provisions forth in a will; or, if a will has already been drawn, they may be expressed in a codicil to the will. The following forms for wills or codicils are suggested:

GENERAL

I (*give*, if personal property; *devise*, if real property) and bequeath to The Endowment Association of the College of William and Mary in Virginia, Inc., a private corporation existing under the laws of the Commonwealth of Virginia and located in the City of Williamsburg, Virginia, and to its successors forever, the sum of

.....dollars (or otherwise describe the gifts) for the general purposes and uses of the College of William and Mary in Virginia at the discretion of the Endowment Association of the College of William and Mary in Virginia, Inc.

SPECIFIC

I (*give*, if personal property; *devise*, if real property) and bequeath to The Endowment Association of the College of William and Mary in Virginia, Inc., a private corporation existing under the law of the Commonwealth of Virginia and located in the City of Williamsburg, Virginia, and to its successors forever, the sum of.....dollars (or otherwise describe the gift) and direct that the principal thereof and/or income therefrom shall be used for the following purposes, viz. (here describe the use desired).

CODICIL

Having hereinbefore made by last Will and Testament dated, and being of sound mind, I hereby make, publish, and declare the following codicil thereto; (here insert clause in same form as if it had been included in the body of the Will). Except as hereinbefore changed, I here ratify, confirm and republish my said last Will and Testament.

Should you or your attorney wish additional information, please contact the Office of the President of the College of William and Mary and an informational booklet will be mailed to you.

SCHOLARSHIPS, FELLOWSHIPS, LOANS, AND STUDENT EMPLOYMENT

The College offers financial assistance in the form of scholarships, fellowships, grants-in-aid, loans and student employment to deserving students who wish to defray a part of their total college expenses. Inquiries and applications for financial assistance should be submitted to the Director of Student Aid. Students in residence who wish to apply or re-apply for aid must do so prior to May 1 of the session preceding the one for which they hope to obtain aid. Entering students must present their applications before July 15 of the year they expect to enter the College.

SCHOLARSHIPS

All awards, unless otherwise stated, are based on academic achievement, character, and financial need as determined by the College Scholarship Service. Entering students seeking financial assistance are required to submit a copy of the Parents' Confidential Statement form to the College Scholarship Service, designating the College of William and Mary as one of the recipients. This form may be obtained from a secondary school or the College Scholarship Service.

Scholarships are awarded for one year only, but may be renewed for each succeeding year. In order to renew a scholarship for the following year, it is necessary that the holder re-apply to the Director of Student Aid by May 1. The minimum academic requirement for renewal is a quality point average of 1.0 for the school year. In addition, the student must have a good conduct record and give evidence of continued financial need.

All students who hold scholarships must make a quality point average of 1.0, or better, during the first semester to have the award continued for the second semester.

Scholarships are available to able and deserving men and women residents of Virginia. A limited number of scholarships are also available to out-of-state male residents. Some of the scholarships open to undergraduate students are described below:

1. Unfunded Scholarships valued up to \$300 each for an academic year. These scholarships are available to Virginia students who meet the qualifications of scholastic achievement, character, and need.
2. Thomas Ball Scholarship Fund, established to aid students from Tidewater Virginia and particularly from the Northern Neck of Virginia. These awards vary from \$100 to \$500 for an academic year.
3. Cary T. Grayson Scholarship valued up to \$200 for an academic year. These scholarships are available to men students, Virginians and non-Virginians alike.
4. The Greene Scholarships, valued from \$100 to \$500 per academic year, available on the basis of scholastic excellence and need.
5. The Cromwell Scholarships, valued from \$100 to \$300 per academic year, awarded on the bases of academic excellence and need.
6. Teacher Training Scholarships are available to students who are residents of Virginia and plan to teach in the Virginia Public Schools. These scholarships are valued at \$350 per academic year. Address all inquiries to the Dean of the School of Education.
7. Science Contest Scholarships. Eight awards made annually to entering Virginia male students on basis of competitive written examination in each of four fields: biology, chemistry, mathematics, and physics. The first place award in each field is valued at \$500 for the session; the second place award in each field is valued at \$300 for the session. These scholarships are renewable for three succeeding years if the recipient achieves a creditable record.
8. Modern Language Scholarships. The Modern Language Association of Virginia conducts a yearly tournament in French and Spanish in the high schools of Virginia. The College of William and Mary offers two scholarships of \$100 each, one for French and one for Spanish. These scholarships are open to men only.
9. Latin Tournament Scholarships. The Virginia Classical Association conducts annually a Latin Tournament for Virginia high

school students. The College of William and Mary offers one scholarship valued at \$200 to a senior winner in one of the several classes of entrants in this tournament. The scholarship is renewable after the freshman year, if the recipient achieves a creditable record.

FOREIGN EXCHANGE SCHOLARSHIPS

University of Exeter Scholarship and University of St. Andrews Scholarship. The College of William and Mary has an agreement with Exeter University in England and the University of St. Andrews in Scotland for an annual exchange of students. Under the plan an outstanding William and Mary student is given the opportunity to study at one of these universities for one year. One student will be selected for each university. These two scholarships are open to students who are about to enter their junior year or who are members of the graduating class. All college fees (tuition, registrations, room and board) will be waived for the exchange students who will live in one of the Residence Halls of Exeter University or St. Andrews. One student from Exeter and one from St. Andrews will come to the College of William and Mary for the same period.

Drapers' Company Scholarship. Each year an outstanding graduate of William and Mary will be selected by the College for a two-year period of study at Oxford, Cambridge or at another British university. This is made possible by an agreement between William and Mary and the Drapers' Company of London. In exchange a British student, preferably from Bancroft's School, will be selected by the Drapers' Company for a two-year period of undergraduate study toward a bachelor's degree at the College of William and Mary. This exchange program will provide the cost of tuition and living expenses for each student.

FINANCIAL AID FOR GRADUATE AND PROFESSIONAL STUDENTS

The Department of Biology offers for each academic session one fellowship valued at \$1,000 and one valued at \$2,000. Several graduate assistantships of \$2,400 each plus applicable tuition are available. In addition, there are NSF Traineeships up to \$2,500 per year. Several research assistantships with stipends of \$2,400 to \$3,000 for twelve

months are also available. Students holding these research grants will be assigned projects on a half-time basis.

The Department of Chemistry makes available two fellowships of \$1,500 each, and several assistantships of \$2,400 plus applicable tuition on an academic session basis.

The School of Business Administration, the Departments of Government, Physical Education, Sociology, and the School of Education offer assistantships of \$2,400 plus applicable tuition.

The Department of History offers a number of assistantships beginning at \$2,400 plus applicable tuition in its Master of Arts and Doctor of Philosophy programs. The Department also makes available a limited number of fellowships beginning at \$2,000. Apprenticeships in the combined Master of Arts and Historical Administration program begin at \$2,400 plus applicable tuition. Grants of lesser amounts sponsored by the National Society of the Colonial Dames XVII Century and the Society of the Cincinnati also are available to graduate students in history.

The School of Marine Science awards research assistantships to students working in the Virginia Institute of Marine Science at Gloucester Point, Virginia. These research assistantships carry a stipend of \$2,800 for a calendar year.

The Marshall-Wythe School of Law has a number of scholarships available to eligible students. Three W.A.R. Goodwin Scholarships valued at \$3,000 each over a three-year period are available to entering students, and numerous Goodwin Grants valued at \$500 each are awarded to upperclassmen on the basis of need and academic achievement. The Matthew Gault Emery Law Scholarship and the Paul M. Shapiro Memorial Scholarship are valued at \$300 each. The Law and Taxation Scholarship is valued at \$500.

The Department of Mathematics offers two fellowships of \$1,500 each and a number of assistantships valued at \$2,400 plus applicable tuition per academic session.

The Department of Physics makes available various forms of financial assistance. At present, graduate students in the Department are being supported through research and teaching assistantships, NASA and

NSF Traineeships, and William and Mary, General Atomic, NDEA, and NSF fellowships.

The Department of Psychology has a cooperative plan with Eastern State Hospital in Williamsburg under which some graduate students are selected to work there and study in the area of psychopathology as student assistants in psychology. They receive stipends of approximately \$2,000 per academic year with an opportunity to earn more during the summer, and for these students the College provides tuition fellowships. The Department also has some graduate assistantships valued at \$2,400 each, plus tuition allowance, for the academic year.

MERIT SCHOLARSHIPS

The Merit Scholarships are awarded on the basis of academic achievement to the ranking undergraduate scholars of the College and are not available to entering students.

Each of these scholarships exempts the student from tuition fees to the extent of \$75.00 (if the recipient is a Virginia resident), or \$100.00 (if the recipient is not a Virginia resident), except that the Elisha Parmele Scholarship and the William Arthur Maddox Scholarship amount to \$100.00 and \$75.00 respectively, regardless of residence.

One-half of the scholarship is credited to the student's account at the beginning of the first semester and one-half at the beginning of the second. Failure to remain in residence at the College for the semester forfeits one-half the value of the scholarship.

<i>Award</i>	<i>Donor or Source</i>
HENRY EASTMAN BENNETT	Loren Eastman Bennett, Mrs. Henry E. Bennett, and Mrs. William George Guy
GEORGE BLOW	Captain George P. Blow
PRESIDENT BRYAN	Friends of the College of William and Mary
"KING" CARTER	Founded by Robert Carter, revived through the efforts of Mrs. Malbon G. Richardson
CHANCELLOR	Hugh Blair Grisby

<i>Award</i>	<i>Donor or Source</i>
JOHN ARCHER COKE	John Archer Coke and Mrs. Elsie Coke Flanagan
EDWARD COLES	Mary Roberts Coles and Mrs. George S. Robins
CORCORAN	W. W. Corcoran
JACKSON W. DAVIS	General Education Board of the Rockefeller Foundation and Friends of the College
GRAVES	Rev. Dr. Robert J. Graves
ROBERT W. HUGHES	Robert M. Hughes, LL.D.
JOSEPH E. JOHNSTON	Robert M. Hughes, Jr.
JOHN B. LIGHTFOOT	Mrs. Mary Minor Lightfoot
MARY MINOR LIGHTFOOT	Mrs. Mary Minor Lightfoot
WILLIAM ARTHUR MADDOX	Susie W. Maddox
ELISHA PARMELE	United Chapters of the Phi Beta Kappa Society
JOSEPH PRENTIS	Judge Robert R. Prentis
JOHN WINSTON PRICE	Starling W. Childs
SOUTTER	James T. Soutter

GENERAL SCHOLARSHIPS

<i>Award</i>	<i>Donor or Source</i>
ALUMNI	Society of the Alumni
THOMAS BALL FUND	Mrs. Alfred I. (Jessie Ball) duPont
BOOTH-BINNS FUND	Arbella Booth Binns
CHRISTOPHER BRANCH	Blythe Walker Branch
J. BRUCE BREDIN	J. Bruce Bredin
BELLE S. BRYAN	John Stewart Bryan
JOHN STEWART BRYAN FUND	Mrs. Lettie Pate Evans
HARRY LEE CARTER	Harry Lee Carter
J. A. C. CHANDLER	Board of Visitors of the College of William and Mary
MEMORIAL	
JOHN CLOPTON AND JOHN BACON CLOPTON	Mrs. Marie Clopton Jackson
BETTY RUTH CODDINGTON	Alpha Chi Chapter of Gamma Phi Beta
MEMORIAL	
COGGIN	Mr. and Mrs. William B. Coggin

<i>Award</i>	<i>Donor or Source</i>
RUSSELL MILLS COX, JR. WAR MEMORIAL	Dr. Russell M. Cox and Harry Duffield Cox, '43
CRIM	John W. H. Crim
CROMWELL	William N. Cromwell
CHANCELLOR DARDEN SCHOLARSHIP AND LOAN FUND	Mrs. Colgate W. Darden, Jr.
DELTA DELTA DELTA	Alpha Mu Chapter of Delta Delta Delta
EARLY VIRGINIA HISTORY FELLOWSHIP	Order of First Families of Virginia
EDUCATIONAL OPPORTUNITY GRANTS	United States Department of Health, Ed- ucation and Welfare and College of William and Mary
LETTIE PATE EVANS	Lettie Pate Evans Foundation
CARL A. FEHR MUSIC	William and Mary Choir and Friends of Carl A. Fehr
JUNIUS BLAIR FISHBURN FRIENDS	Junius Blair Fishburn Friends of the College of William and Mary
GENERAL FUND	Board of Visitors of the College of Wil- liam and Mary
ANNE GOFF	Mrs. Anne B. Goff
ADMIRAL CARY T. GRAYSON	Anonymous
GREENE	Mr. and Mrs. William H. Greene
HIBBARD MEMORIAL	Captain and Mrs. R. C. Hibbard
IRVIN MEMORIAL	Miss Annie B. Irvin
KAREN JOHNSON MEMORIAL	The Emil O. Johnson Family and Friends
LAMBDA CHI ALPHA MEMORIAL	Epsilon Alpha Zeta Chapter of Lambda Chi Alpha
LANGHORN-PUTNEY MEMORIAL	Eugenie D. Turnage
LAWSON SHELTON	Cheadie Burch Lawson
EDITH NORMENT LUMBYE	Mrs. Virginia N. Potts
MEMORIAL ENDOWMENT FUND	J. Gordon Bohannon
RICHARD LEE MORTON	Faculty, Students and Alumni
THOMAS BALL MONTAGUE	Mary W. Montague

<i>Award</i>	<i>Donor or Source</i>
GUY LELAND OVERAKER MEMORIAL	Friends of Guy Leland Overaker
PAN-HELLENIC	Pan-Hellenic Council of the College of William and Mary
PI KAPPA ALPHA	Robert M. Hughes, LL.D.
JOSEPH SCHOOLFIELD POTTS, JR.	Mrs. Virginia N. Potts
PRENTICE-HALL DRAMATIC SECOND WORLD WAR	Mrs. Anna Bell Koenig Nimmo
BERTEL RICHARD RASMUSSEN WAR MEMORIAL	Mr. and Mrs. Bertel Rasmussen
MARY BOYD RYLAND	Archie Garnett Ryland
MARTHA WALLER SAUNDERS	Alice La Villon Saunders
OSCAR F. SMITH MEMORIAL	Oscar F. Smith
REX SMITH JOURNALISM	Friends of Rex Smith
SOCIETY OF THE CINCINNATI FELLOWSHIP IN HISTORY	Society of the Cincinnati in Virginia
TEACHER TRAINING SCHOLARSHIPS	The General Assembly
TYLER-CHANDLER	Class of 1920
UNFUNDED	The General Assembly
UNITED DAUGHTERS OF THE CONFEDERACY	United Daughters of the Confederacy
VIRGINIA PILOT ASSOCIATION	Virginia Pilot Association of Norfolk, Virginia
JOHN PHILIP WAGER	Board of Visitors of the College of Wil- liam and Mary
WASHINGTON-JEFFERSON	Daughters of the Cincinnati
ALEXANDER W. WEDDELL	Alexander W. Weddell
VIRGINIA WEDDELL	Mrs. Virginia Weddell
CARTER WHITE	Carter White
WILLIAM AND MARY EDU- CATION FOUNDATION	William and Mary Educational Founda- tion

SPECIAL SCHOLARSHIPS

<i>Award</i>	<i>Donor or Source</i>
BORDEN	The Borden Company Foundation

<i>Award</i>	<i>Donor or Source</i>
T. C. CLARKE SCHOLARSHIP AND/OR FELLOWSHIP	T. C. Clarke
KING MEMORIAL	Faculty and Student Body
LATIN TOURNAMENT	College of William and Mary
MODERN LANGUAGE	College of William and Mary
SCIENCE CONTEST	College of William and Mary

GRADUATE, PROFESSIONAL AND CO-OPERATING SCHOOLS

<i>Award</i>	<i>Donor or Source</i>
COLLEGE OF WILLIAM AND MARY	Massachusetts Institute of Technology
LAW AND TAXATION	J. D. Carneal, Jr.
MATTHEW GAULT EMERY LAW	Theodore S. Cox
KAPPA DELTA PI EDUCATION	Alpha Xi Chapter of Kappa Delta Pi
WILLIAM A. R. GOODWIN MEMORIAL FUND	Mrs. Lettie Pate Evans
EXETER UNIVERSITY	Exeter University and the College of William and Mary
DRAPERS' COMPANY EX- CHANGE SCHOLARSHIP	Drapers' Company and College of Wil- liam and Mary
PHI ALPHA DELTA LAW	George Wythe Chapter of Phi Alpha Delta
PAUL M. SHAPIRO	Family and Friends of Paul M. Shapiro

LOAN FUNDS AND SCHOLARSHIPS

<i>Award</i>	<i>Donor or Source</i>
PHILO SHERMAN BENNETT LOAN FUND	William Jennings Bryan
HOPE-MAURY LOAN SCHOLARSHIP	The Hope-Maury Chapter of the United Daughters of the Confederacy
NORFOLK COLLEGE ALUM- NAE ASSOCIATION LOAN SCHOLARSHIP	Alumnae Association of Norfolk College

<i>Award</i>	<i>Donor or Source</i>
WILLIAM LAWRENCE SAUNDERS STUDENT AID FUND	William Lawrence Saunders
WILLIAM K. AND JANE KURTZ SMOOT FUND	Fairfax County Chapter, Daughters of the American Revolution
STATE STUDENT'S LOAN FUND	The General Assembly
NATIONAL DEFENSE STUDENT LOAN PROGRAM	United States Department of Health, Ed- ucation and Welfare and The College of William and Mary

STUDENT EMPLOYMENT AND THE WORK-STUDY PLAN

In order to coordinate work and study the College has vested control of student employment in the Committee on Scholarships and Student Employment. This supervision applies to positions on the campus as well as to jobs in the City of Williamsburg.

At the present time employment opportunities in the vicinity of the College of William and Mary are such that each student may be assured of a substantial work income. A student may expect to earn from one-fourth to three-fourths of his college expenses. Through the cooperation of Colonial Williamsburg and other business concerns, a plan synchronizing part-time employment with study has been developed.

In order to maintain a proper balance between hours of employment and academic loads, the College requires that all student employment on the campus or in the city be assigned by the Director of Student Aid. Students are cautioned not to undertake more outside work than their academic schedules will safely permit. The normal work load is fifteen hours per week, and no student may work more than twenty hours per week without permission from the Committee on Scholarships and Student Employment.

Student employment assignments are on a contractual basis. All students accepting employment are expected to meet the responsibilities of their respective jobs. Failure to do so will constitute adequate reason for the Committee to refuse further financial assistance.

The usual jobs available to students are those as waiters, clerks, salesmen, technical and manual workers, stenographers, typists, and student assistants at the College. Whenever possible, the Committee on Scholarships and Student Employment will secure for the student a job which is directly related to his intended future career or to his course of study. In every case, an effort is made to give the student a job in which he can display his interests, talents, and skills to the best advantage.

PRIZES

The Lord Botetourt Medal. An annual award to the graduating student who has attained greatest distinction in scholarship. The medal was established in 1772, and has been revived through the generosity of Mr. Norborne Berkeley.

The Blinn History Award. Established in 1965 by Laura Maryland Carpenter Blinn. This award of \$100 is given to the highest ranking senior student in history at the College.

Nathan Burkan Memorial Competition. The American Society of Composers, Authors, and Publishers offers awards of \$250 and a second prize of \$100 for the two best papers submitted by students of the Marshall-Wythe School of Law on a subject of current significance in the field of copyright law.

James Frederick Carr Memorial Cup. A memorial to James Frederick Carr, a former student of the College, who lost his life in the World War, March, 1919. The cup is the property of the College. The student winning the award has his name engraved on the cup. Awarded on the basis of character, scholarship, and leadership. Presented by Mrs. John B. Bentley.

Chi Omega Award. A monetary award by the local chapter of the Chi Omega sorority to the student attaining the highest average in one of the Social Science departments.

The Educational Foundation Awards. These awards are made annually to the outstanding intramural athlete and to the outstanding intercollegiate athlete among the senior men. In making the awards consideration is given to character, leadership, scholarship and sports-

manship, as well as to athletic prowess. These awards are supported by the College of William and Mary Educational Foundation, Inc.

The Wayne F. Gibbs Award. A prize of \$50 annually shall be awarded to the best student in accounting who shall have successfully completed (or is about to complete) his undergraduate work.

The Robert L. Greene Chemistry Scholarship. This award is made annually to a junior or a senior student who is concentrating in chemistry. It is valued at \$300 for the session and is awarded upon the recommendation of the Department of Chemistry.

The William A. Hamilton Prize. A prize of \$300 established in 1938 by Charles P. Sherman, D.C.L., LL.D., as a memorial to the late William A. Hamilton, D.C.L., formerly Professor of Jurisprudence and Dean of the School of Economics and Business Administration, awarded to the student graduating in Law who shall write and submit the best essay or thesis on a subject connected with Roman Law or with Comparative Roman and Modern Law, the subject to be assigned by the faculty of the Marshall-Wythe School of Law.

James Barron Hope Scholarship. Established in 1897 by Robert M. Hughes, LL.D., of Norfolk, Virginia. It is awarded for the best piece of creative writing published in the College magazine and written by a student below senior rank. The scholarship exempts Virginia students from the payment of \$75 in fees and non-Virginia students from \$100 in fees.

The L. Tucker Jones Memorial Prizes. These prizes are awarded annually to the outstanding senior students in the men's and women's intramural programs. In making the awards consideration is given to qualities of leadership, high ideals, and scholastic standing. These prizes are supported by the L. Tucker Jones Memorial Fund.

The Tiberius Gracchus Jones Literary Prize. Established by Archer G. Jones as a memorial to his father, Tiberius Gracchus Jones, who was in residence at the College in 1844-45. The income from the gift of \$1,000 supports a prize for the best English essay submitted by an undergraduate student. The word "essay" includes the poem, the short story, the play, the oration, and the literary essay.

Lawyer's Title Award. The Lawyer's Title Insurance Corporation of Richmond, Virginia, awards an annual prize of \$100 together with

an appropriate certificate to the senior or graduating student of law in the Marshall-Wythe School of Law found by the faculty of the Law School to be most proficient in the law of real estate.

The Seidman & Seidman Tax Award. The firm of certified public accountants of Seidman & Seidman makes an annual award of a gold key on which the seal of the College is engraved, to the student in the Marshall-Wythe School of Law who, at graduation, has achieved the highest average in his courses on taxation, provided that his program included at least twelve semester hours in this field.

Sullivan Awards. A medallion awarded by the Southern Society of New York in recognition of influence for good, taking into consideration such characteristics of heart, mind, and conduct as evince a spirit of love and helpfulness to other men and women. Awarded each year to a man and a woman from the student body and to a third person possessing the characteristics specified by the donors.

The Wall Street Journal Achievement Award. A suitably inscribed medal and a year's subscription to the *Wall Street Journal* award to the outstanding senior in finance.

The William and Mary Law School Association Award. Law books to the value of \$25 are given to the student who is judged to have made the best contribution to each issue of the William and Mary Law Review.

PRIZES AND HONOR AWARDS

PHI BETA KAPPA

ACADEMIC YEAR, 1967-1968

INITIATES-IN-COURSE

Class of 1968

DIANA BAROCCO	Elkland, Pennsylvania
FREDERICK SCOTT BLACK	Broadway, Virginia
NANCY LEE BONIFANT	Silver Spring, Maryland
ALISON LESLIE BRENNER	New York, New York
ANNE BINDON BRISEBOIS	Arlington, Virginia
PATRICIA ANN CARLSON	Norfolk, Virginia
ROBERT JOSEPH CLINE	Alexandria, Virginia
ROSE FRANCES CONNELLY	North Arlington, Massachusetts
BARRY EDWARD CRESSMAN	Hicksville, Long Island, New York
PATRICIA WARD CROWE	Wilmington, Delaware
PAUL MACLYN DAINER	Union, New Jersey
MARGARET SAVAGE DAVIS	Norfolk, Virginia
JACQUELYN SCOTT DULIN	Chevy Chase, Maryland
CHERYL LYNN GRIFFITHS	Fairfax, Virginia
NAIDA LOUISE HARLOW	Essexville, Michigan
JOYCE ELIZABETH HILL	Chevy Chase, Maryland
BARBARA ANN HOLLEY	Arlington, Virginia
MARY ELLEN HURN	Murray, Kentucky
LYNN STUART KINGERY	Aberdeen, Maryland
NANCY KAY LAIRD	Virginia Beach, Virginia

MICHELE LOIZZI	Portsmouth, Virginia
ANN LOUD	Arlington, Virginia
MERLE GRACE MARKWITH	Haddonfield, New Jersey
SUZANNE LEE MILLER	Tampa, Florida
PATRICIA ANN MILLIREN	Seaford, Delaware
ALICE DIANE MOBERG	McLean, Virginia
JOHN MALCOLM MUELLER	Springfield, Virginia
VERONICA JOY MULCAHY	Indianapolis, Indiana
JANE EILEEN MYERS	Spring Grove, Pennsylvania
IAN MICHAEL O'FLAHERTY	Falls Church, Virginia
GEORDIE LOUISE PAULUS	Alexandria, Virginia
KATHERINE YVONNE PETERS	Hampton, Virginia
GERI MARIE SCHNEBLI	Arlington, Virginia
WILLIAM GERHARD SEIBERT, JR.	St. Louis, Missouri
ELLEN SHORTER	Richmond, Virginia
JOAN WOODWARD	Arlington, Virginia

AWARDS AND PRIZES, 1967-1968

The Lord Botetourt Medal: ROSE FRANCES CONNELLY, North Abington, Massachusetts.

The James Frederick Carr Memorial Cup: ROBERT JOSEPH CLINE, Alexandria, Virginia.

The Algernon Sydney Sullivan Awards: PATRICIA ANN MILLIREN, Seaford, Delaware; DAVID WHITT RUTLEDGE, Newport News, Virginia.

The Tiberius Gracchus Jones Literary Prize: MICHAEL GREER McFADDEN, Alexandria, Virginia.

The Laura Maryland Carpenter Blinn History Award: WILLIAM G. SEIBERT, JR., St. Louis, Missouri.

- The Chi Omega Award:* SANDRA TAYLOR PRICE, Springfield, Virginia.
- The Wayne F. Gibbs Award:* ELIZABETH CAROL COLLINS, Marion, Virginia.
- The Robert L. Greene Chemistry Scholarship:* GEORDIE LOUISE PAULUS, Alexandria, Virginia.
- The James Barron Hope Scholarship:* SARAH ELIZABETH BRITTINGHAM, Virginia Beach, Virginia.
- The Lawyer's Title Award:* ROBERT EDWIN SCOTT, Williamsburg, Virginia.
- The Nathan Burkan Memorial Competition:* PAUL E. HOLTZMULLER, Eaton, Ohio.
- The Seidman & Seidman Tax Award:* HOWARD JAMES BUSBEE, Williamsburg, Virginia.
- The Wall Street Journal Achievement Award:* FRANCIS E. HARTMAN, Jr., Hampton, Virginia.

MERIT SCHOLARSHIPS AWARDED, 1968-69

- Chancellor:* JUDY ELLEN BANKS, Florence, S. C.
- Elisha Parmele:* RANDOLPH MARSHALL BELL, New Kensington, Pa.
- Joseph Prentis:* ARTHUR LEE BOWLING, JR., Lynchburg, Va.
- George Blow:* KATHLEEN LOUISE COLES, Springfield, Va.
- Joseph E. Johnston:* VIOLA LEE HAMILTON, Richmond, Va.
- John Archer Coke:* RICHARD ALAN O'NEIL, Washington, D. C.
- Robert W. Hughes:* RICHARD CARLTON COOK, Williamsburg, Va.
- Edward Coles:* JERRY A. COYNE, Arlington, Va.
- "King" Carter:* KAREN GAIL WHITAKER, Dahlgren, Va.
- Corcoran:* VIRGINIA ANN VOGEL, Norfolk, Va.
- Soutter:* JOHN MICHAEL STUART, Richmond, Va.
- Graves:* JOHN EASTBURN BOSWELL, Petersburg, Va.

John B. Lightfoot: EDMUND McKEILL HENDERSON, JR., Nassawadox, Va.

Mary Minor Lightfoot: MRS. MUTLU K. BLASING, Williamsburg, Va.

John Winston Price: CAROLYN RUTH ZEUL, Vienna, Va.

William Arthur Maddox: DIANE L. HICKEY, Springfield, Va.

Henry Eastman Bennett: LYNN E. JOHNSTON, Canton, Georgia

President Bryan: WALLACE BROWN AKERS, Roanoke, Va.

Jackson W. Davis: JOSEPHINE ANASTASIA ROBERTS, Richmond, Va.



DEGREES CONFERRED

Regular Session 1967-1968

BACHELORS OF SCIENCE

DIANA FAY AMSBAUGH	Vienna
SUSAN CLOCKER ANDREWS	Alexandria
CHARLES FRED ANSPACH	Newport News
DAVID V. APPLER	Berkeley Heights, N. J.
REGINA ANN ARMENTROUT	Richmond
BENJAMIN HOBART AUDET	Portsmouth
<i>High Honors in Physics</i>	
CAROL ANN BAGLEY	Richmond
JAMES LYLE BAGLEY	Chesapeake
JOHN EDWARD BAILEY, JR.	Williamsburg
JANET LOUISE BAKER	Arlington
THOMAS OLIVER BAKER	Miami, Florida
WILLIAM MARSHALL BALLANCE	Jarratt
GRETCHEN LEE BARNEY	Virginia Beach
SUSAN B. BASKERVILLE	Richmond
LESLIE C. BEADLING	Elizabeth, Pa.
GEORGE ALVIN BEAR, JR.	Medford, N. J.
JOHN ALEXANDER BIRK*	Petersburg
HELEN SUZANNE BOLTON	Arlington
NANCY LEE BONIFANT	Silver Spring, Md.
JUDITH ANN BOOKER	Annandale
STEPHEN GUSTAV BORLESKE	West Friendship, Md.
MARIE ELIZABETH BOUDREAU	Hampton
FREDERICK OTTO BOYSEN	Haddonfield, N. J.
DAVID GORDON BRAGG	Bena
ELIZABETH ANN BROMLEY	Washington, D. C.
ADIN DEERING BROWN	El Paso, Texas
DIANE RUTH BROWN	Curundu, Canal Zone
FREDERICK LEE BROWN	Williamsburg
RONALD DANE BROWN	Fieldale

*Degree Requirements Completed Prior to June 7, 1968

JUDITH RENÉ BRYANT*	Newport News
WILLIAM GORDON BUCHANAN III	Roanoke
SHARON ELIZABETH BUCK	Newport News
MERCER DAVID BURT*	Newport News
GRETCHEN JOAN CARNEY	Newport News
SAMUEL BRYAN CHANDLER	Montross
ROGER CHESSEER	Williamsburg
MEI-CHUAN TANG CHOW	Taipei, Taiwan, Rep. of China
WALTER WILLIAM COLLINS	Norfolk
ARTHUR FRANKLIN CONWAY	Kilmarnock
<i>High Honors in Biology</i>	
HERMINIO CUERVO-DELGADO	Hampton
DANIEL MEYER DARRAGH*	Pittsburgh, Pa.
JAMES E. DAVIS	Petersburg
DAVID ROGER DINTERMAN*	Vienna
WILLIAM CARLTON DIXON	Alexandria
RICHARD LESTER DOLSEY	Richmond
ELEANOR CARTER DOUGLAS	Columbus, Ga.
ROBERT EDWIN DRAKE, JR.	Rockville, Md.
SAMUEL T. EDWARDS, JR.	Hampton
SUSAN MICHELE FLINN	Falls Church
DONALD NEAL FREEMAN	Silver Spring, Md.
DIANE TERESE GOODMAN	Greenville, S. C.
KATHRYN LOUISE GREEN	Charlottesville
CHERYL LYNN GRIFFITHS	Fairfax
SHARON ALTHEA HANSEN	Newport News
WAYDE LOCKWIN HARRISON	Bridgeville, Pa.
SUSAN HOLMES HARVELL	Bon Air
KENNETH ALFRED HIMMEL	Melrose, Mass.
CATHARINE MACKIE HOGGARD	Newport News
BARBARA ANN HOLLEY	Arlington
SUSAN LOUISE HOLLIS	Norfolk
EDWIN PATRICK HOPKINS	Chester
GROVER CHARLES HOWARD	Portsmouth
REBECCA EARLENE HUMPHLETT	Richmond
MARY ELLEN HURN	Murray, Ky.
JAMES R. JANCAITIS	Norfolk

*Degree Requirements Completed Prior to June 7, 1968

DANIEL GEORGE JENKINS	Ligonier, Pa.
RUTH ANN JENKINS	Manquin
JAMES PAGE JULLIEN	Falls Church
DEAN ELIZABETH KAHL	Petersburg
HOWARD DONALD KAHN	West Caldwell, N. J.
LILLIAN MARTIN KEISTER	Glade Spring
GORDON N. KELLETT II	Arlington
CATHERINE YANCEY KERR	Alexandria
JAMES BRUCE KERR	Hampton
PETER EISENHOWER KING	Bowie, Md.
WARREN DECATUR KNOWLTON	Reading, Mass.
NANCY KAY LAIRD	Virginia Beach
HELEN JOYCE LANTZ	Broadway
PAUL FREDERICK LEIMER	Arlington
LYNN ELLEN LOETTERLE	Springfield
RICHARD EARLY LUNSFORD	Falls Church
DIANE CHRISTINE LYNCH	Hampton
DAVID LESLIE MAJETTE	Newport News
MELVIN G. MANOR, JR.	Langley Air Force Base
MERLE GRACE MARKWITH	Haddonfield, N. J.
ROBERT ARCHER MASON	Atlanta, Ga.
ELIZABETH ANN MAY	Virginia Beach
BARBARA ELLEN MCCOY	Richmond
CATHERINE FRANCES MCCOY	Washington, D. C.
TIM WHITTUS MCGAUGHY	Columbus, Ohio
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 Pearl Harbor, Hawaii
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ERNEST DAVID RAMOS	Hampton
MARY MARGARET RANDALL	Easton, Md.
DIANE MARIE RAU	Williamsburg
FRANCES ELIZABETH READ	Alexandria
VICTORIA ANNE READ	Kent, Ohio

High Honors in Modern Languages

THOMAS STEVENS REAVELY	Mount Pleasant, Iowa
EMERY ARNOLD REED, JR.	Falls Church
ANDREW RICKARDS REEVE	Williamsburg
JUDITH NAN REX	Newport News
REBECCA HESS RICE	Tillar, Ark.
JOHN ANTHONY RICHARDS*	Fairfax
CAROL LYNNE RICHARDSON	Arlington
DIANE ELAINE RILEY	Boca Raton, Fla.
ELIZABETH ANN RIPLEY	Lynchburg
PAUL JAMES RITCHIE, JR.	Williamsburg
ALFRED FRANCIS RITTER, JR.	Norfolk

*Degree Requirements Completed Prior to June 7, 1968

ANNE CAROL ROBERTS	Lynchburg
BARRIE LYNN ROBERTS	Port Chester, N. Y.
LAUREL VIRGINIA ROBERTS	Alexandria
MARY LYNN BRYAN ROBERTS*	Corpus Christi, Tex.
BERNARD EDWARD ROBINS	Achilles
CAROL ELIZABETH ROLLER	Williamsburg
CECILIA ELAINE ROSS	Joanna, S. C.
FREDERICK PAUL ROTH	New York, N. Y.
STEPHEN EDWARD ROW	Delran, N. J.
MYRA L. ROWAND*	Newport News
THOMASINE ELIZABETH ROWELL	Newport News
KENNETH STEVEN RUBIN	New York, N. Y.
PATRICIA GRIST RUSSELL	Williamsburg
ROBIN LOUISE RUSSELL	Alexandria
DAVID WHITT RUTLEDGE	Newport News
PRISCILLA ANNE RUTTER	Martinsville
GORDON EUGENE SAFFOLD	Saltville
JO CAROL SALE	Richmond
JAHANGIER SALEH	Tehran, Iran
SHARON LEIGH SAMPSON	Reedville
MARSHA JEAN SATER	Martinsville
THOMAS MOORE SAVAGE	Suffolk
DAVID H. SCHAEFFER	Williamsburg
RICHARD M. SCHWARTZ	Norfolk
BETTE SUZANNE SCOTT	Falls Church
DOROTHY CARROLL SCOTT	Deltaville
PAUL ALVIN SCOTT	Fairfax
SUSAN WRAY SCRUGGS	Fredericksburg
NANCY DIANE SEALE	Annandale
ELIZABETH ROSS SEAUER	McLean
THOMAS FRENCH SEE	Winchester
WILLIAM GERHARD SEIBERT, JR.	St. Louis, Mo.
<i>High Honors in History</i>	
FRANCES ANN SELF	Wayne, Pa.
VIRGINIA RIVES SEWARD	Norfolk
SUSAN VIRGINIA SHAFER	Louisville, Ky.
MARY ANN SHAIK	Richmond
MARTHA IRVIN SHAW	Glenshaw, Pa.

*Degree Requirements Completed Prior to June 7, 1968

JOHN ROBERT SHAY, JR.	Alexandria
NORBERT JOHN SHEA	Washington, D. C.
BRIAN STEPHEN SHORTELL	Alexandria
ELLEN SHORTER	Richmond
CHARLES EDWARD SHREEVES	Newport News
<i>High Honors in Ancient Languages</i>	
BARBARA ANNE SIKORA	Poquoson
RICHARD ELWOOD SIKORSKI	Stratford, Conn.
WILLIAM COY SIMMS III	Washington, D. C.
FREDRIC WENDELL SLIGHT	Alexandria
STEPHEN LEE SLOTNICK	Irwin, Pa.
ANN NUCKOLS SMALLWOOD	Newport News
FREDERICK BAKER SMALLWOOD*	Newport News
ANNE ELIZABETH SMITH	Charles City
CAROL LEE SMITH	Alexandria
FRANK E. SMITH	Williamsburg
RICHARD MEREDITH SMITH*	Alexandria
SANDRA LEE SMITH	Newport News
SANDRA LYNNE SMITH	Tallahassee, Fla.
WILLIAM MORGAN SMITH II	Cumberland
LARRY DOUGLAS SMYTH	Alliance, Ohio
CHARLES GILLET SNEAD	Newport News
SUZANNE MARIE SNEDEGAR	Elkins, W. Va.
STEPHEN MICHAEL SNYDER	Arlington
GERALDINE TRTILEK SOCHA	Berwyn, Ill.
LINDA SORRELL	Rocky Mount, N. C.
CAROL IRENE SPEARS	Williamsburg
NANCY JEAN SPEARS	Alexandria
LAWRENCE STROUD SPELL	Arlington
SUSAN SPIGGLE	Roanoke
JO LYNNE STANCIL	Highland Springs
PATRICK W. STANGE	Falls Church
BARTHOLOMEW JAMES STEIB	Arlington
SHARON SUZANNE STEIGER	Annandale
JEFFREY CARSON STEINHOFF	Arlington
LINDA MAY STICKEL	Fairfax
GEORGE ALAN STOHNER	Moorestown, N. J.
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*Degree Requirements Completed Prior to June 7, 1968

JAMES WESLEY STOUT	Pulaski
JOSEPH TOBIAS STOUT	Cranford, N. J.
BARBARA ADAIR STOWE	Lynchburg
ALLISON GORDON STRANGE	Florence, S. C.
JUDITH M. STRATTON	Alexandria
ELIZABETH MARGARET STURGES	New Canaan, Conn.
MARY JANE SULLIVAN	Stoughton, Mass.
NANCY JOHANNA SUNDIN	Hampton
HARRY KENT SWANSON III	Danville
JANICE LOUISE SWANSON	North Bend, Ore.
PAULA BENAY SWEELEY	Williamsburg
BECKY-LEE SWEET	Pittsburgh, Pa.
ANNE-GARDNER SYDNOR	Lynchburg
BRUCE FORSYTH SYLVESTER	Arlington
MAX STEFAN TABACK	Newport News
JEFFREY A. TAYLOR	Savannah, Ga.
LOUISE STRATTON TAYLOR	West Point
SUSAN WATKINS TAYLOR	Richmond
WILBUR AUSTIN TAYLOR	Hampton
JOHN CHARLES THIEL	Williamsburg
ORVILLE VAN THOMAS, JR.	Williamsburg
CARLTON FOREST THORNBURY	Hialeah, Fla.
RICHARD HARRY TILLBERG	Pensacola, Fla.
JOYCE JOHNSON TIMBERLAKE	Bluefield, W. Va.
JAMES ROBERT TOMPKINS	Saint Paul
NADIA TONGOUR	Barnwell, S. C.
TRUEMAN RENNELS TREMBLE, JR.	Lively
<i>High Honors in Psychology</i>	
KARL PETER TRIBELHORN	West Mifflin, Pa.
CATHARINE SUSAN SAULMON TRICE	Arlington
CYNTHIA WEBB TRICE	Drewryville
ROBERT HOLMES TRICE, JR.	Charlottesville
<i>High Honors in Government</i>	
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BETTIE MALLORY TROTTER	Richmond
JOHN ALLEN TUCKER, JR.	Virginia Beach
THOMAS MICHAEL TUCKER	Danville
MARGARET EMILY ALTA TUTTLE	Alexandria
PATRICIA LOUISE VAKOS	Virginia Beach

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RANDOLPH EDWARD VERNON

Honors in Government

JAMES RUSSELL VINCENT

PATRICIA ANNE VOPATEK

ELIZABETH ANN WADE

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GLENNE D. WITHERS

High Honors in Anthropology and Sociology

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BENJAMIN ELBERT WOMBLE, JR.

CECILY CLAIRE WOOD

FRANCES NOWLAN WOOD

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Coral Gables, Fla.

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McLean

Alexandria

Clifton Forge

Norfolk

Lorton

Norfolk

Hampton

McLean

Medfield, Mass.

Rockville, Md.

Buenos Aires, Argentina

Newport News

Newport News

Vienna

Norfolk

Arlington

Roanoke

Mexico, N. Y.

Hampton

Portsmouth

Courtland

Stephens City

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Churchill, Ohio

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B.A., Lynchburg College, 1965.	
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ETTALEA ESTHER KANTER	Hampton
B.S. in Secretarial Administration, The Woman's College of the University of North Carolina at Greensboro, 1959.	
DAVID LAURENT KERN	Warminster, Pa.
B.A., College of William and Mary, 1966.	
EYLESE MILLER LATHAM	Hampton
B.A., Sweet Briar College, 1938.	
JAMES DAVID LOEWUS	Hampton
B.S., United States Military Academy, 1940.	
PEGGY GRACE HART LONG	Water Valley, Miss.
B.A.E., University of Mississippi, 1963.	
JOHN RHODES MCCARTHY*	Melrose, Mass.
B.A., College of William and Mary, 1966.	
ALBERT EARL MCCUE	Christchurch
B.S., Education, The University of Georgia, 1949.	
THELMA H. MCILWAIN*	Prince George
B.S., Richmond Professional Institute, 1966.	
ANTHONY JOHN MENCINI	Virginia Beach
B.S., Bowling Green State University, 1955.	
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B.S. in Ed., Madison College, 1940.	
MARY GREGORY MONTGOMERY*	Newport News
B.S., Massachusetts Institute of Technology, 1948.	
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ANNE BRADSHAW OWENS	Virginia Beach
B.S. in Ed., Madison College, 1943.	
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ANNE SCHULTZ REPP*	Richmond
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ANNE KLARE RILEY	Newport News
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RICHARD WILLIAMS RUEHE	Hampton
B.S., University of Illinois, 1950.	
M.A., The George Washington University, 1965.	

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JOHN SAPON*	Colonial Heights
B.S., Virginia Polytechnic Institute, 1960.	
CHARLES RICHARD SAUNDERS	Hopewell
B.S. in Bus. Admn., Richmond College-University of Richmond, 1960.	
ARTHUR LEE SCARBOROUGH	Virginia Beach
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ANN ROONEY SMOLA	Newport News
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SANFORD DEAN SNIDER	Newport News
B.S., Eastern Mennonite College, 1962.	
SUSAN JEAN STRAHORN	Hampton
B.S. in Education, Drake University, 1959.	
JOHN ALDEN STARNES*	Hayes
B.A., Carson-Newman College, 1959.	
GLORIA REID STENZHORN*	Virginia Beach
B.S. in Education, Longwood College, 1947.	
ANN TERRIE SWANN	Richmond
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ELIZABETH GOODALL WILSON*	Crewe
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*Degree Requirements Completed Prior to June 7, 1968

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B.A., East Carolina College, 1950.	
M.Ed., College of William and Mary, 1963.	
CHARLES NOTTINGHAM MOORE, SR.	Disputanta
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M.Ed., College of William and Mary, 1950.	

MASTERS OF SCIENCE

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(Physics)	
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(Mathematics)	
ANTHONY JAMES BAROODY, JR.	Mt. Sidney
B.S., Richmond College-University of Richmond, 1966.	
(Physics)	
RICHARD DONALD BUCKINGHAM	Williamsburg
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(Physics)	
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BILL J. GEORGES	Newport News
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Agriculture and Engineering of the University of North Carolina,
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(Mathematics)
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M.A., Wake Forest College, 1963.
(Physics)
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(Mathematics)
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(Physics)
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- CHARLES BAILEY SPENCE, JR. Virginia Beach
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(Physics)
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B.S., Louisiana State University and A. & M. College, 1955.
(Mathematics)
- WILLIAM ARTHUR WELLS Brandon, Fla.
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MASTERS OF ARTS

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- FRANK ALBERT CHESNO, JR. Baltimore, Md.
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(History)
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 Agriculture and Engineering of the University of North Carolina,
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FRANK MACDONALD MORTON III	Williamsburg
B.A., Gettysburg College, 1965.	
JAMES CRAIG PATTESON	Richmond
B.S., Richmond Professional Institute, 1966.	
CYRUS E. PHILLIPS IV*	Williamsburg
B.A., University of Illinois, 1966.	
DONALD J. REICHLE	Seaford
B.A., Wayne State University, 1963.	
GLENN CLARK RELYEA	Williamsburg
B.S. in Bus. Admin., Babson Institute of Business Administration, 1965.	
RICHARD ALLEN REPP*	Dearborn, Mich.
B.A., The University of Michigan, 1963.	
HUGHES KENNEDY REVELEY, JR.	Virginia Beach
B.S., Hampden-Sydney College, 1963.	

*Degree Requirements Completed Prior to June 7, 1968

SUSAN LEVINE REYNOLDS	Danville
B.A., College of William and Mary, 1965.	
DON LEON RICKETTS*	Portsmouth
B.A., East Carolina College, 1958.	
R. GARNETTE SAUNDERS	Dundas
B.A., College of William and Mary, 1965.	
ROBERT EDWIN SCOTT	Williamsburg
B.A., Oberlin College, 1965.	
MARTIN RANDOLPH SHELTON	Yorktown
B.A., College of William and Mary, 1966.	
ROBERT LEE SIMPSON, JR.*	Virginia Beach
B.A., College of William and Mary, 1965.	
WALTER AUGUSTUS SMITH III	Bethesda, Md.
B.S. in Bus. Admin., Drexel Institute of Technology, 1965.	
WAYNE ROSS SPENCER	Newport News
B.S., East Carolina College, 1964.	
DAVID KEGBEIN SUTELAN*	Norfolk
B.S., United States Naval Academy, 1961.	
ROBERT EDWARD TOMES	Richmond
B.A., College of William and Mary, 1966.	
ROBERT THOMAS WANDREI*	Adams, Mass.
B.S., University of Massachusetts, 1961.	
WILLIAM LINDLEY WELLONS	Victoria
B.A., College of William and Mary, 1965.	
RONALD WESLEY WHITE	Williamsburg
B.A., Dakota Wesleyan University, 1957.	
DONALD PETER WITTY	Williamsburg
B.A., University of Notre Dame, 1965.	
RONALD ANTON WOERLE*	Williamsburg
B.A., College of William and Mary, 1965.	

MASTERS OF LAW AND TAXATION

WILLIAM DODDS BRACKETT	Hinsdale, Ill.
B.S. in Business Accounting, The University of Kansas, 1965.	
J.D., College of William and Mary, 1967.	
HOWARD J. BUSBEE	Williamsburg
B.A., College of William and Mary, 1965.	
J.D., College of William and Mary, 1967.	

*Degree Requirements Completed Prior to June 7, 1968

DAVID LAWRENCE GIBSON*

Oakton

B.S., Virginia Polytechnic Institute, 1961.

LL.B., Washington & Lee University, 1964.

DOCTORS OF PHILOSOPHY

PAUL ERIC HARGRAVES

Warwick, R. I.

B.S., University of Rhode Island, 1963.

M.S., University of Rhode Island, 1965.

(Marine Science)

ROBERT J. HARRIS, JR.*

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B.S., College of William and Mary, 1963.

M.S., College of William and Mary, 1965.

(Physics)

WILLIAM BEEUWKES SHULER*

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B.S., College of William and Mary, 1962.

M.A., College of William and Mary, 1964.

(Physics)

*Degree Requirements Completed Prior to June 7, 1968

DEGREES CONFERRED

Summer Session 1968

BACHELORS OF SCIENCE

WILL ALBERT BARBER, JR.	Accomac
ROBERT CARLTON BARNES	Richardson, Texas
PAULINE ELIZABETH BROWN	Richlands
PAUL MACLYN DAIRER	Union, New Jersey
MARGARET LOUISE EGGLESTON	Newport News
CORITA ANNE HERRMANN	Mechanicsville
KENNETH COLE IRBY	Gloucester Point
ARTHUR ROBERT LOUISE	Elmont, New York
DIANE B. RHODES	Williamsburg
RICHARD ARTHUR SCHEID	Arlington
MARSHALL DAVID STONE	Williamsburg
APRIL HARLYNN TEITELBAUM	Falmouth

BACHELORS OF ARTS

ALAN MILLER ARTMAN	Suffolk
JEANETTE MARTIN BASS	Newport News
ROBERT HARRY BENNETT	Hampton
DOROTHY D. BRADSHAW	Franklin
FRANCES B. BURLOCK	Poquoson
ROBERT WALTER CARNEY	Williamsburg
KAREN LOU CARTER	Alexandria
MARTIN MUSSELMAN CHRONISTER	Fairfield, Pa.
FRANK HARWOOD CLARK III	Palm Desert, Calif.
GEORGE THOMAS COGGIN	Norfolk
PATRICIA WARD CROWE	Wilmington, Del.
<i>Honors in English</i>	
ANTHONY JOHN DEMARY	New Alexandria, Pa.
KATHLEEN ELIZABETH DILLON	McLean
SUSAN FERN EVANS	Arlington
ROBERT STEPHEN GADKOWSKI	Chatham, N. J.
SUSAN GAIL GARBLER	Williamsburg
MARILYN JANE GIORGIO	Huntingdon Valley, Pa.
BRUCE CLARK GORDY	Tangier Island
DOUGLAS CARSON GREEN	Saint Paul, Minn.

KAREN LEE HAAS	Radford
STEVANNE JOAN HOOPER	Falls Church
CHARLES WILLIAM HOUSEL	Radford
CAROL TURNBULL HUGHES	Hampton
WILLIAM R. M. HUSSEY	Washington, D. C.
KATHRYN SCHOLZ INMAN	Covington
RICHARD BERLE JOLLIFFE	Chesapeake
WALTER BASKERVILLE JONES	Louisburg, N. C.
MILDRED CORBETT LAMM	Newport News
NEIL C. LIVINGSTONE	Helena, Mont.

Honors in Government

LARRY TODD MCCOY	Hampton
ROBERTA MICK	Roanoke
RUTH WHITEHEAD MORRIS	Petersburg
NANCY REBECCA PETERS	Williamsburg
JAMES G. PLANTZ	Minneapolis, Minn.
ELIZABETH ANNE POLLOCK	Philadelphia, Pa.
GERTRUDE ELIZABETH POND	Portsmouth
MARGARET MARSTON PRESTON	Virginia Beach
JEANNE GLENITH PRICE	Amburg
WILLIAM HENKEL PRICE	Martinsville
EDGAR HALTIWANGER RAWL III	McLean
ROBERTA FLETCHER RAY	Yorktown
CATHERINE ALLENE RENALDS	Staunton
SARAH ANN ELIZABETH SADLER	Dixie
MACON C. SAMMONS, JR.	Shawsville
NORMA EVA SGALITZER	Fort Monroe
JOSEPH JULIUS STELLUTE	Hampton
MARTHA VARNEY STUART	Lexington
BARBARA ANNE WAINWRIGHT	Richmond
SHIRLEY JO WALDREP	Boydton
GARY DONALD WALTER	Poland, Ohio
EDWIN WHITFIELD WATSON II	Hampton
GAIL MARIE WEBSTER	Arlington
RUTH PARKS WHITE	Newport News
DIANE ELIZABETH WOODARD	Courtland
HOWARD WALTON WORRELL, JR.	Richmond

MASTERS OF BUSINESS ADMINISTRATION

- PAUL JOSEPH BIMLER Hampton
B.S. in Bus. Admin., University of Arizona, 1961.
- JONATHAN C. G. BOWMAN Worcester, England
B.A., University of Exeter (England), 1967.
- WILLIAM FLOYD DENNIS Hampton
B.S. in Experimental Statistics, North Carolina State College of
Agriculture and Engineering of the University of North Carolina,
1964.
- ROBERT CHARLES HEIM Philadelphia, Pa.
B.S. in Economics, University of Pennsylvania-Wharton School of
Finance and Commerce, 1964.
- MARGARET ANNE HOFBAUER Falls Church
B.A., College of William and Mary, 1967.
- ROBERT FRED MANNY Newport News
B.B.A., Ohio University, 1965.
- K. SRIDHARAN Madras, India
B.A., University of Madras, 1960.
- GEORGE MICHAEL SULLIVAN, JR. Petersburg
B.A., College of William and Mary, 1967.

MASTERS OF TEACHING IN SCIENCE

- NANCY ADAMS BOOKER Highland Springs
B.S., Westhampton College, University of Richmond, 1961.
(Mathematics)
- ARTHUR J. CANNON, JR. Lynnfield, Mass.
B.S., United States Merchant Marine Academy, 1950.
M.Ed., Salem State College (Massachusetts), 1968.
(Physics)
- RONALD THOMAS DONATE Fort Lauderdale, Fla.
B.S., Monmouth College, 1963.
(Physics)
- CHARLES V. FOLTZ West Chester, Pa.
B.S., West Chester State College, 1956.
M.Ed., Temple University, 1961.
(Biology)

- JOHN STEPHEN FORNADEL Landisville, Pa.
B.S. in Educ., Millersville State College, 1963.
(Chemistry)
- ALBERT A. JAKELIS Freehold, N. J.
B.S., Monmouth College, 1961.
(Biology)
- THOMAS R. JUDD Rochester, N. Y.
B.S. in Educ., State University College (Geneseo, N.Y.) 1965.
(Physics)
- KAY OWNBY Richmond
B.A., Westhampton College, University of Richmond, 1958.
(Biology)
- OSCAR L. PRATER Williamsburg
B.A., Talladega College, 1961.
(Physics)
- PHILIP C. REZENDES Newport, R. I.
B.A., Providence College, 1960.
(Chemistry)
- DAVID STINE RUNE Lewistown, Pa.
B.S. in Educ., State Teachers College (Shippensburg, Pa.), 1963.
(Mathematics)
- THOMAS GOWER SLAUGHTER Charlotte, N. C.
B.A., Wofford College, 1949.
B.S., Pharmacy, Medical College of South Carolina, 1956.
(Chemistry)
- JAMES WESLEY STANLEY Canton, Ohio
B.A., Malone College, 1962.
(Mathematics)
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B.S., East Carolina College, 1960.
(Mathematics)
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B.S. in Educ., The State Teachers College at California, Pennsylvania, 1958.
M.Ed., Duquesne University, 1962.
(Mathematics)
- BRUCE EDWARD WILLIS Hilton, N. Y.
B.S., State University of New York—Albany, 1957.
(Biology)

MASTERS OF EDUCATION

HENRY G. ALLARD	Hampton
B.A., College of William and Mary, 1957.	
EVELYN HAZARD ANGUS	Richmond
B.S., Westhampton College, University of Richmond, 1939.	
CAROLE HOFMEYER BALLARD	Courtland
B.S., Longwood College, 1963.	
IOLA RAE BATES	West Union, W. Va.
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EDGAR LAWRENCE BEACH	Norfolk
B.S.-Secondary Education, Norfolk Division of The College of William and Mary, 1960.	
ELIZABETH AMES BLANFORD	Portsmouth
B.S. in Educ., Madison College, 1942.	
OWEN JACK BLEVINS	Virginia Beach
B.S.-Sec. Educ., Old Dominion College, 1963.	
RUBY VIRGINIA BOWER	Norfolk
B.A. in Educ., Western Washington College of Education, 1945.	
ARTHUR VERNON BRANDRIFF, JR.	Portsmouth
B.S., Virginia Military Institute, 1960.	
OLIVIA O. BRDECKO	Hampton
B.S., in Educ., College of St. Joseph on the Rio Grande, 1944.	
M.A., The University of New Mexico, 1956.	
ANNE HOLLAND BRINKLEY	Holland
Mus. B., Oberlin College, 1962.	
GLENN THOMAS BRODIE	Vienna
B.A., College of William and Mary, 1966.	
VIRGINIA FELTS BROWN	Montross
B.A., Mary Washington College of the University of Virginia, 1950.	
CARY FLOWERS BURT	Newport News
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B.S., The Florida State University, 1958.	
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B.A., University of North Carolina at Charlotte, 1967.	
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B.S., Virginia Polytechnic Institute, 1962.	

MABEL BEATRICE G. CLARKE	Syringa
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WILLIAM NORWOOD COX	Newport News
B.A., Randolph-Macon College, 1958.	
WILLIAM CARLTON CREWS	Nathalie
B.A., College of William and Mary, 1949.	
JOE DARSEY DURHAM	Richmond
B.S. in Education, Western Carolina College, 1963.	
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B.S.-Elem. Educ., Old Dominion College, 1964.	
REBECCA GAY GALBRAITH	Chagrin Falls, Ohio
B.S., Gordon College, 1963.	
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DENNIS O'NEIL GILLIKIN	Hampton
B.A., Tennessee Wesleyan College, 1963.	
LARRY GOOD	Blackstone
B.A., University of Virginia, 1961.	
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B.S. in Bus. Admin., Pennsylvania Military College, 1961.	
FRANCES MERRILL GRAEF	Poquoson
B.A., Norfolk Division of The College of William and Mary, 1938.	
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B.S. in Educ., Madison College, 1942.	
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B.M. (Composition), Cincinnati Conservatory of Music, 1949.	
SHIRLEY SAUNDERS HARWOOD	Williamsburg
B.S. in Elem. Ed., Longwood College, 1962.	
HUGH RALPH HENDRIX	Virginia Beach
B.S., College of William and Mary, 1949.	
LILY IVY	Yorktown
B.S., McPherson College, 1954.	
PATRICIA ELIZABETH JONES	Ware Shoals, S. C.
B.S., Winthrop College, 1963.	
MATTIE MARIE KNIGHT	Ridgeway
B.S. in Educ., Radford College, 1959.	

LEVY JOHN LE BLANC	Norfolk
B.S. in Elem. Educ., Old Dominion College, 1965.	
GEORGE H. LEONBERGER II	Midland, Texas
B.S. in Educ., Texas Technological College, 1962.	
BLANCHE DUBINS LIPMAN	Portsmouth
B.A., Hunter College, 1943.	
NELL COLEMAN MANN	Hampton
B.A., Carson-Newman College, 1947.	
JOSEPH MORDECAI McKEE	Chesapeake
B.S.-Elem. Educ., The Norfolk College of William and Mary, 1962.	
CYNTHIA JEAN MEGGINSON	Norfolk
B.S., Gordon College, 1963.	
MARIAN THOMAS MINOR	Richmond
B.S. in Health, Phy. Ed. and Recreation, Mary Washington College of the University of Virginia, 1955.	
HARRY PENMAN MITCHELL	Chester
B.A., University of Alabama, 1950.	
B.D., Union Theological Seminary (in Virginia), 1953.	
WILLIAM BRUCE MONTGOMERY	Virginia Beach
B.A., Milligan College, 1964.	
JOSEPH WALLACE MOORE	Newport News
B.A., The George Washington University, 1964.	
NANCY ELIZABETH MOYER	Fort Eustis
B.S. in Educ., Central Methodist College, 1963.	
MARTHA SNEAD NEALE	West Point
B.S., Madison College, 1936.	
WILLIAM STANLEY NICHOLSON	Melfa
B.A., University of Virginia, 1956.	
JAMES MORGAN OGLESBY	Virginia Beach
B.S.-Sec. Education (Social Studies), The College of William and Mary-V.P.I. Norfolk Division, 1960.	
TERRANCE D. ORLICK	Atlantic Highlands, N. J.
B.A., Syracuse University, 1967.	
CLAUDE E. PORTER	Norfolk
B.S. Secondary Education, Norfolk Division of The College of William and Mary, 1960.	
DOROTHY CORRELL QUESENBERRY	Newport News
B.A., King College, 1959.	

ALICE FRACKER RANDALL	Newport News
B.A., The George Washington University, 1940.	
JOHN HARVARD RANDOLPH	Williamsburg
B.A., College of William and Mary, 1964.	
O. WARREN REDHAIR	Yorktown
B.M., Youngstown College, 1951.	
EDITH CARPENTER RIGGINS	Hampton
B.S. in Education, Radford College, 1953.	
DONALD L. ROBY	Williamsburg
B.A., Coe College, 1958.	
FLORA ANN ROLAND	Portsmouth
B.S. in Educ., Madison College, 1961.	
REUBEN NATHAN SALADA	Du Bois, Pa.
B.S. in Educ., State Teachers College (Lock Haven, Pa.), 1936.	
MICHAEL GRAHAM SAMS	Williamsburg
B.S., East Carolina College, 1966.	
DOROTHY B. SAZIO	Virginia Beach
B.A., College of William and Mary, 1953.	
JOSEPH FRANK SELLEW	Virginia Beach
B.S. in Sec. Educ., Old Dominion College, 1964.	
ANNE ELIZABETH SMITH	Hampton
B.S., Madison College, 1966.	
THOMAS WILLIAM SMITH, JR.	Richmond
B.A., The University of Chicago, 1957.	
JENNINGS B. SPINKS, JR.	Smithfield
B.M. in Ed., Madison College, 1960.	
HARMON ERNEST JOHN STANCH	Norfolk
B.A., University of Minnesota, 1952.	
MARY HELVEY STROHM	Falls Church
B.S. in Educ., Radford College, 1952.	
ALVEY EDWARD SUTPHIN	Williamsburg
B.A., King College, 1961.	
LOUISE RYLAND THORNTON	Sussex
B.A., College of William and Mary, 1966.	
GERALD TIEDEMANN	Norfolk
B.S.-Physical Education, The Norfolk College of William and Mary, 1961.	
CECIL B. TILLERY, JR.	Hampton
B.A.-Elementary, Shepherd College, 1965.	

CONSTANTINE PETE VRETOS	Newport News
B.S., Randolph-Macon College, 1961.	
DAVID MARYLAND WEBB	Crittenden
B.A., Atlantic Christian College, 1966.	
MAYNARD JAY WEBER	Pennington, N. J.
B.S., Winona State Teachers College, 1950.	
GAY WEST WILCOX	Williamsburg
B.S., College of William and Mary, 1965.	
WILLIAM BRYANT WILLIAMS, JR.	Newport News
B.A., Hampden-Sydney College, 1962.	
REBECCA ELLEN WILSON	Mebane, N. C.
B.S., Appalachian State Teachers College, 1966.	
DONALD EARL WOODARD	Norfolk
B.A., Frederick College, 1963.	

MASTER OF SCIENCE

RICHARD ANDREW CROCKER	Cambridge, Mass.
B.A., Northeastern University, 1966.	
(Physics)	

MASTERS OF ART

NANCY BRISKA ANDERSON	Macon, Ga.
B.A., Wellesley College, 1962.	
(History)	
VICTOR GREGORY BURRELL, JR.	Gloucester Point
B.S., College of Charleston, 1949.	
(Marine Science)	
WILLIAM DAVID DUPAUL	Southbridge, Mass.
B.S. in Educ., State College at Bridgewater, Massachusetts, 1965.	
(Marine Science)	
JOHN B. FORTIER	Lansing, Mich.
B.A., Michigan State University—Oakland, 1963.	
(History)	
VEENA KAPUR	Delhi, India
B.A., Indraprastha College for Women (India), 1966.	
(Psychology)	

- | | |
|---|------------------------------|
| GAIL BROWN MACKIERNAN | Wheaton, Md. |
| B.S., The American University, 1964. | |
| (Marine Science) | |
| JOHN DOUGLAS McEACHRAN | Gloucester Point |
| B.S., Michigan State University, 1965. | |
| (Marine Science) | |
| GWENDA MORGAN | Newport, Mon., Great Britain |
| B.A. History, The University of Southampton (England), 1964. | |
| (History) | |
| EUGENE WILLIAM NICHOLLS | Hampton |
| B.S., Old Dominion College, 1965. | |
| (Biology) | |
| STEVEN MARC RATNOW | Bronx, N. Y. |
| B.A., Emory University, 1966. | |
| (Psychology) | |
| JOHN KENNETH ROWLAND | Hillcrest Heights, Md. |
| B.A., The George Washington University, 1967. | |
| (History) | |
| DONNA DEMORANVILLE TURGEON | New Bedford, Mass. |
| B.S. in Educ., State College at Bridgewater, Massachusetts, 1965. | |
| (Marine Science) | |
| KENNETH W. TURGEON | New Bedford, Mass. |
| B.S., Stonehill College, 1965. | |
| (Marine Science) | |

DOCTORS OF JURISPRUDENCE

- | | |
|--|-----------------|
| DAVID JOSEPH AGATSTEIN | Malverne, N. Y. |
| B.A., Queens College of The City University of New York, 1966. | |
| ROGER LEE AMOLE, JR. | Roanoke |
| B.A., College of William and Mary, 1964. | |
| PAUL ELLIOTT HOLTZMULLER | Eaton, Ohio |
| B.A., College of William and Mary, 1966. | |
| SALVATORE JAMES JESUELE | Fort Lee, N. J. |
| B.A., Lafayette College, 1966. | |
| GILBERT CHARLES JONES | Williamsburg |
| M.B.A., University of Pennsylvania, 1960. | |
| DALLAS MELVIN PATTERSON | Williamsburg |
| B. of Gen. Educ., The University of Omaha, 1960. | |

JOHN CHILTON REED

B.A., Virginia Military Institute, 1963.

Pensacola, Fla.

JAMES NICHOLAS SAVEDGE, JR.

B.S., Frederick College, 1964.

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WILLIAM TAYLOR SHANNON

B.A., Georgetown University, 1965.

Washington, D. C.

DOCTOR OF PHILOSOPHY

DALE RALPH CALDER

Fairhaven, New Brunswick, Canada

B.S., Acadia University (Nova Scotia), 1964.

M.A., College of William and Mary, 1966.

(Marine Science)



ENROLLMENT

Session 1968-1969

	<i>Men</i>	<i>Women</i>	<i>Totals</i>
Freshmen	626	510	1136
Sophomores	531	402	933
Juniors	371	338	709
Seniors	367	332	699
Law School	183	9	192
Graduates	214	92	306
Unclassified	6	7	13
	2298	1690	3988

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Session 1968-1969

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California	28
Colorado	5
Connecticut	49
Delaware	22
Florida	29
Georgia	40
Hawaii	2
Illinois	46
Indiana	21
Iowa	10
Kansas	4
Kentucky	17
Louisiana	7
Maine	3
Maryland	132
Massachusetts	56
Michigan	13
Minnesota	6
Mississippi	1
Missouri	7
Montana	1
Nebraska	3
New Hampshire	7
New Jersey	175

New Mexico	1
New York	135
North Carolina	31
Ohio	73
Oklahoma	6
Oregon	1
Pennsylvania	165
Rhode Island	10
South Carolina	22
South Dakota	2
Tennessee	15
Texas	18
Vermont	4
Virginia	2727
Washington	6
Washington, D. C.	23
West Virginia	18
Wisconsin	4
Australia	1
Belgium	1
Bermuda	2
Canada	4
Canal Zone	1
England	7
Greece	1
Hong Kong	2
Mexico	2
Saudi Arabia	1
Scotland	2
Spain	1
Taiwan	7
Thailand	1
Turkey	1

Summer Session 1968

	<i>Men</i>	<i>Women</i>	<i>Totals</i>
Alabama	1	3	4
Alaska	1	0	1
Arizona	1	0	1
Arkansas	0	1	1
California	10	3	13
Colorado	2	1	3
Connecticut	5	4	9
Delaware	1	3	4
Florida	27	4	31
Georgia	8	3	11
Hawaii	1	1	2
Illinois	13	5	18
Indiana	3	1	4
Iowa	1	1	2
Kansas	4	3	7
Kentucky	9	3	12
Louisiana	3	3	6
Maine	4	0	4
Maryland	21	14	35
Massachusetts	5	4	9
Michigan	10	7	17
Minnesota	8	1	9
Mississippi	1	0	1
Missouri	2	1	3
Montana	3	0	3
Nebraska	2	0	2
Nevada	0	1	1
New Hampshire	3	2	5
New Jersey	23	9	32
New Mexico	1	0	1
New York	21	11	32
North Carolina	11	11	22
Ohio	20	14	34
Oklahoma	2	2	4
Oregon	1	0	1
Pennsylvania	36	18	54
Rhode Island	1	0	1
South Carolina	4	5	9
South Dakota	0	1	1
Tennessee	2	2	4
Texas	16	5	21
Vermont	1	0	1
Virginia	734	768	1502
Washington	2	1	3

	<i>Men</i>	<i>Women</i>	<i>Totals</i>
Washington, D. C.	3	0	3
West Virginia	4	3	7
Wisconsin	2	2	4
Bermuda	1	0	1
Canada	3	0	3
Canal Zone	0	1	1
England	2	0	2
France	0	1	1
Germany	1	0	1
India	1	1	2
Japan	1	0	1
Puerto Rico	1	0	1
Greece	1	0	1
	1044	924	1968



The statue of Lord Botetourt, an early patron of the College, is the centerpiece of this modern gallery of the Swem Library

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11. OLD DOMINION HALL

12. BRYAN HALL
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19. TALIAFERRO HALL
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21. CAMPUS CENTER
22. COLLEGE BOOKSTORE

23. TRINKLE HALL
24. KING INFIRMARY
25. TYLER HALL
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- CONSTRUCTION: Proposed or Near Completion
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